

# Angel N.

## Expert Web Scraping Engineer with Data Analytic skills

### SUMMARY

- 10+ years with data and web scraping, data analysis, and crawler development; - Developed 200+ web crawlers for fashion brands and 700+ crawlers for job offer aggregation including Fortune 500 companies; - Led a team of junior engineers in data crawling projects; - Managed scraping infrastructure, data parsing, and cleaning procedures using pandas and regex; - Skilled in Python, PHP, JavaScript, SQL, and tools like Scrapy, Selenium, Pandas, BeautifulSoup, TensorFlow, and Regex; - Analyzed data and built visualizations with Tableau and Power BI; - Experienced with version control (Git) and Agile/Scrum methodologies; - Used reverse engineering, XPath, CSS selectors, and AJAX calls to handle dynamic websites; - Developed software architecture and contributed to test automation; - Worked on projects involving distributed tasks with Gearman, Selenium, Puppeteer; - Stayed updated on web scraping best practices and emerging technologies.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Python (8 yr.), BeautifulSoup (2 yr.), Selenium, Scrapy, Playwright
<b>Programming Languages</b>	JavaScript (3 yr.), PHP (5 yr.), Python (8 yr.)
<b>JavaScript Frameworks</b>	AngularJS, React
<b>Python Libraries and Tools</b>	Beautiful Soup (2 yr.), NLTK (3 yr.), Scrapy, TensorFlow (3 yr.)
<b>AI &amp; Machine Learning</b>	PandasAI (4 yr.), TensorFlow (3 yr.)
<b>Java Frameworks</b>	Play Framework (2 yr.), Vaadin (1 yr.)
<b>Scala Frameworks</b>	Play Framework (2 yr.)
<b>JavaScript Libraries and Tools</b>	Puppeteer (1 yr.), Reselect (2 yr.)
<b>PHP Frameworks</b>	Symfony
<b>Data Analysis and Visualization Technologies</b>	Data Analysis (4 yr.), Data Mining (7 yr.), Data Scraping (7 yr.), Data visualization (5 yr.), PandasAI (4 yr.), Power BI (1 yr.), Tableau (1 yr.)
<b>Databases &amp; Management Systems / ORM</b>	RDBMS (5 yr.)
<b>UI Frameworks, Libraries, and Browsers</b>	CSS (2 yr.), HTML5 (2 yr.), XPATH (5 yr.)
<b>Amazon Web Services</b>	AWS S3

<b>SDK / API and Integrations</b>	Payment Gateways (5 yr.), RESTful API (2 yr.)
<b>QA, Test Automation, Security</b>	Playwright, Puppeteer (1 yr.), Selenium
<b>Project Management &amp; Administration</b>	Project Management (5 yr.)
<b>UI/UX/Wireframing</b>	Responsive Design (5 yr.)
<b>Platforms</b>	RPA
<b>Methodologies, Paradigms and Patterns</b>	Scrum (2 yr.)
<b>Version Control</b>	SVN (5 yr.)

## WEB SCRAPING EXPERIENCE

### Web Scraping Engineer, NDA

**Duration:** Nov 2021 – Present

- Led a 5-person engineering team focused on dynamic pricing projects for e-commerce;
- Designed and maintained scrapers for major European retailers and marketplaces;
- Oversaw large-scale data collection and adaptation to seasonal website changes.

#### Scraped Resources:

- **Retail & Marketplaces:** amazon.de, amazon.es, amazon.fr, amazon.it, amazon.nl, amazon\_uk, carrefour.es, carrefour.fr, auchan.fr, leclerc.fr, elcorteingles.es, mediamarkt.at, mediamarkt.de, mediamarkt.es, mediamarkt.nl
- **Tech & Electronics:** acer.de, asus.de, dell.de, hp.de, hp.uk, irobot.de, irobot.es, irobot.fr, irobot.nl, irobot.uk, otto.de, skullcandy.eu
- **Home & DIY:** fnac.fr, leroymerlin.fr, electrodepot.fr, lechai.fr

### Web Scraping Engineer, Recruit.net

**Duration:** June 2020 – Oct 2021

- Led a team of two junior engineers, managing over 1M job offer crawls daily;
- Created 700+ scrapers for job boards and enterprise career portals;
- Parsed XML-based job data and ensured stable data pipelines under high load.

#### Scraped Resources:

- **Big Tech & SaaS:** amazon, apple, google, facebook, stripe, tiktok, netflix, uber, vmware, docker, intel, ibm, cisco, taleo\_net, join\_com
- **Fortune 500 & Enterprises:** boeing, tesla, daimler, general\_motors, verizon, ups, pepsi, nike, dell, paypal, campbellsoupcompany, coca\_cola\_company, disney
- **HR Platforms & Job Boards:** applicantpool, careerplug, allhires, aviahire, bankofamerica, phillips66\_jobs

### Web Scraping Engineer, Tool.Domains



**Duration:** June 2019 – May 2020

- Engineered scraping tools to collect metadata, tags, links, and screenshots from millions of domains;
- Applied distributed scraping using Gearman and browser automation with Selenium and Puppeteer.

**Technologies:** Python, PHP, JavaScript, Selenium, Puppeteer, Gearman

### **Web Scraping Engineer, Clippings**

**Duration:** Sep 2017 – Oct 2018

- Collected and structured product data for furniture brands and online retailers;
- Applied data science tools for product matching and analysis.

**Technologies:** Pandas, NLTK, TensorFlow

### **Web Scraping Engineer, Styloko**

**Duration:** July 2015 – June 2017

- Created ~200 fashion e-commerce crawlers using Scrapy and AWS-based pipelines;
- Applied XPath, regex, CSS selectors, and reverse-engineered AJAX calls.

**Scraped Resources:** alexandermcqueen, allsaints, armani, anthropologie, annataylor, gap, nike, mango, rayban, lacoste, pandora, ragbone, sephora, avon, cultbeauty, jimmychoo, stellamccartney, viviennewestwood

## **WORK EXPERIENCE**

### **Founder, NDA**

**Duration:** Nov 2021 - Current

**Summary:** Software development company delivering innovative business solutions across various industries. Projects focus on custom applications to optimize business processes.

#### **Responsibilities:**

- Established a leading software development company specializing in innovative solutions for businesses;
- Developed the company's vision, mission, and strategic direction, driving growth and profitability;
- Oversaw all aspects of business operations, including budgeting, resource allocation, and performance management, ensuring optimal efficiency and productivity.

### **Web Scraping Engineer, Recruit.net**

**Duration:** June 2020 - Oct 2021

**Summary:** A global job search platform that aggregates listings from company websites, agencies, and job boards across 30+ countries. Offers candidate matching, recruitment ads, and analytics tools for employers.



**Responsibilities:**

- Monitored scraping infrastructure, including servers and proxies, to ensure uninterrupted data extraction;
- Implemented data parsing and cleaning procedures to transform raw scraped data into usable formats, using tools like pandas and regex;
- Stayed updated with the latest web scraping techniques, emerging technologies, and industry best practices to continuously enhance scraping efficiency and effectiveness.

**Technologies:** Python, Pandas, Regex.

**Web Scraping Engineer & Data Analyst, Edoms**

**Duration:** June 2019 - May 2020

**Summary:** A platform focused on domain name research, acquisition, and SEO services, with access to a large database of expired and aged domains. Provides tools for evaluating domain value and supports SEO-driven domain selection and strategy.

**Responsibilities:**

- Created documentation for web scraping processes, data collection methodologies, and data analysis workflows to ensure knowledge sharing and replication of results;
- Collaborated with stakeholders to understand business needs and requirements, translating them into data-driven solutions and actionable recommendations;
- Actively participated in team meetings and contributed to discussions on data strategies, project planning, and process improvements.

**Technologies:** Python, documentation tools.

**Engineer & Data Analyst, Develated Ltd.**

**Duration:** Apr 2019 - May 2019

**Summary:** Software company.

**Responsibilities:**

- Proactively monitored data quality, identifying and resolving data discrepancies and anomalies to ensure the integrity of data assets;
- Actively participated in code reviews, providing constructive feedback to peers and improving overall code quality and maintainability;
- Contributed to the continuous improvement of development processes and methodologies, identifying areas for optimization and implementing streamlined workflows.

**Technologies:** Python, Git.

**ERP Project Manager, AutoHit**

**Duration:** Mar 2019 - Apr 2019

**Summary:** AutoHit is a company specializing in automotive software solutions, focusing on vehicle diagnostics and repair management.



**Responsibilities:**

- Collaborated closely with stakeholders, including senior management, department heads, and cross-functional teams, to gather requirements, define project scopes, and align project objectives with overall business goals;
- Conducted thorough project assessments, including risk analysis, resource allocation, and project feasibility studies, to ensure successful project outcomes;
- Managed project budgets, tracking expenses, and resource utilization, ensuring effective cost management and delivering projects within budgetary constraints.

**Technologies:** Project management tools.

**Web Scraping Engineer & Data Analyst, Clippings**

**Duration:** Sept 2017 - Oct 2018

**Summary:** A digital procurement platform connecting interior designers with over 650 brands and millions of products.

**Responsibilities:**

- Analyzed scraped data to identify patterns, trends, and insights, contributing to data-driven decision-making within the organization;
- Created interactive visualizations and reports using tools like Tableau and Power BI to communicate data findings and provide actionable insights to stakeholders;
- Conducted data cleansing and preprocessing tasks to ensure data accuracy, consistency, and integrity, leading to improved data quality across internal databases.

**Technologies:** Python, Tableau, Power BI.

**Web Scraping Engineer & Data Analyst, Styloko**

**Duration:** July 2015 - June 2017

**Summary:** Styloko was a London-based fashion discovery platform aggregating products from major UK retailers. It offered personalized recommendations and price tracking features to enhance the shopping experience.

**Responsibilities:**

- Developed web scraping scripts using Python and BeautifulSoup to extract relevant data from various websites, ensuring accurate and reliable data collection for analysis purposes;
- Collaborated with cross-functional teams, including data scientists and business analysts, to understand data requirements and implement effective web scraping solutions;
- Stay up-to-date with industry trends and best practices in web scraping techniques and data analysis methodologies, actively seeking opportunities to enhance technical skills and knowledge.

**Technologies:** Python, BeautifulSoup.

**JavaScript ExtJS 4 & 6 Engineer, MittagQI**

**Duration:** Oct 2015 - Feb 2016



**Summary:** MittagQI develops software solutions for the translation industry, including the open-source translation management system translate5. The company provides process automation, machine translation integration, and consulting for language service providers.

**Responsibilities:**

- Implemented efficient data binding techniques and utilized RESTful APIs to retrieve and manipulate data from server-side systems, ensuring optimal performance and data integrity;
- Conducted thorough code reviews and debugging sessions to identify and resolve issues, ensuring the delivery of a clean, maintainable codebase;
- Actively participated in Agile development methodologies, attending daily stand-up meetings, and contributing to sprint planning and retrospective sessions.

**Technologies:** JavaScript, ExtJS, REST APIs.

## **Engineer, Perennial AG**

**Duration:** Aug 2014 - June 2015

**Summary:** Perennial SA is an independent insurance brokerage firm based in French-speaking Switzerland, specializing in corporate insurance, occupational pensions, absence management, and wealth planning.

**Responsibilities:**

- Collaborated with the development team at Perennial AG Company, a leading software solutions provider, on various projects for clients in diverse industries;
- Developed responsive websites and web applications using HTML5, CSS3, JavaScript, and modern frameworks such as React.js and AngularJS;
- Utilized version control systems such as Git for efficient code management and collaboration.

**Technologies:** HTML5, CSS3, JavaScript, React.js, AngularJS, Git.

## **Web Engineer, ClearWare Ltd**

**Duration:** Mar 2014 - Aug 2014

**Summary:** ClearWare Ltd is a software development company specializing in custom solutions, AI integration, and system automation across multiple industries.

**Responsibilities:**

- Maintained existing websites and applications, monitoring performance metrics and implementing improvements to enhance functionality and user satisfaction;
- Conducted research and kept abreast of emerging web technologies and trends, applying the latest tools and techniques to continuously improve development processes and deliver innovative solutions;
- Participated in code reviews, providing constructive feedback to peers to promote code quality, maintainability, and adherence to established coding standards.

**Technologies:** HTML, CSS, JavaScript.

## **Senior Web Engineer, Stock Logistic Ltd.**

**Duration:** Feb 2009 - Mar 2014



**Summary:** Stock Logistic Ltd is a logistics operator providing comprehensive transportation solutions by sea, rail, air, and road.

**Responsibilities:**

- Led the development and implementation of responsive web designs, ensuring seamless user experiences across multiple devices and browsers;
- Mentored junior engineers, providing guidance on coding best practices, architectural design, and troubleshooting techniques;
- Worked closely with stakeholders to gather feedback, assess user needs, and continuously improve web applications based on usability testing and analytics data.

**Technologies:** HTML, CSS, JavaScript.

## **Web Engineer, Homesite**

**Duration:** Sept 2008 - Dec 2008

**Summary:** Homesite is a digital insurance provider specializing in homeowners and renters insurance with a focus on online policy management.

**Responsibilities:**

- Optimized websites for search engines (SEO) and implemented best practices for website performance and accessibility;
- Resolved technical issues, provided timely support, and performed regular website maintenance tasks;
- Stay up-to-date with emerging web technologies and industry trends, proactively recommending improvements to enhance the overall user experience.

**Technologies:** HTML, CSS, SEO tools.

## **Web Engineer, Megalan Network Ltd**

**Duration:** Apr 2008 - May 2008

**Summary:** Megalan Network Ltd was a Bulgarian telecom company providing internet and digital TV services before being acquired by Mobiltel.

**Responsibilities:**

- Utilized version control systems, such as Git, to manage the codebase and facilitate collaboration among team members;
- Integrated third-party APIs, such as payment gateways and social media platforms, to enhance website functionality and user engagement;
- Contributed to the continuous improvement of web development processes and standards within the company.

**Technologies:** Git, API integration.

## **Web Engineer, Gameloft**

**Duration:** July 2007 - Feb 2008

**Summary:** Gameloft is a French video game company developing and publishing mobile, console, and PC games worldwide.



**Responsibilities:**

- Designed and implemented responsive web designs to ensure optimal user experience across various devices and screen sizes;
- Implemented SEO best practices to optimize web applications for search engines and improve online visibility;
- Worked closely with content management systems (CMS) to update and manage website content efficiently.

**Technologies:** HTML, CSS, CMS.

**Web Engineer, Mirchev Ideas**

**Duration:** Dec 2006 - May 2007

**Summary:** Mirchev Ideas is a software company specializing in e-commerce solutions, including the Summer Cart shopping platform.

**Responsibilities:**

- Assisted in the optimization of websites for search engine optimization (SEO) and implemented SEO best practices to improve organic rankings and visibility;
- Actively participated in project planning and scoping activities, providing technical expertise and suggestions for improving user experience and functionality;
- Stayed up-to-date with emerging web technologies and trends, proactively incorporating new tools and techniques into projects to enhance overall quality and efficiency.

**Technologies:** SEO tools, HTML, CSS.

**Web Engineer, WebGate JSC**

**Duration:** Dec 2005 - June 2006

**Summary:** WebGate JSC is a Bulgarian software company specializing in mobile apps and digital solutions.

**Responsibilities:**

- Conducted thorough testing and debugging to identify and fix any issues or bugs, ensuring high-quality deliverables;
- Participated in code reviews and provide constructive feedback to peers, promoting code quality and best practices;
- Actively contribute to project planning and estimation, providing technical expertise and guidance to ensure successful project execution.

**DB Manager, Ratola**

**Duration:** June 2005 - Oct 2005

**Summary:** Ratola Corporation is a Bulgarian automotive company and exclusive distributor for SsangYong and BRABUS brands.

**Responsibilities:**

- Planned database upgrades and migrations, ensuring minimal disruption to business operations and seamless transition to new technologies;



- Maintained comprehensive documentation, including data dictionaries, system diagrams, and operational procedures, to ensure knowledge sharing and facilitate efficient database management;
- Provided technical guidance and mentorship to junior team members, fostering their professional growth and promoting a culture of continuous learning within the department.

**Technologies:** SQL, database management tools.

## **Web Engineer, Mochanin**

**Duration:** Sept 2004 - Feb 2005

**Summary:** Mochanin is a software development company based in Sofia, Bulgaria, specializing in PHP/MySQL-based frameworks and web applications.

### **Responsibilities:**

- Utilized version control systems (e.g., Git) to track and manage code changes, facilitating seamless collaboration and enabling efficient troubleshooting;
- Optimized websites for search engines (SEO) by implementing best practices for meta tags, keyword placement, and content organization;
- Monitored website analytics using tools like Google Analytics to track user behavior, gather insights, and propose data-driven improvements.

**Technologies:** Git, Google Analytics, SEO tools.

## **EDUCATION**

**Sofia University St. Kliment Ohridski, M.D.:** Theology/Theological Studies (03/2000)

