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

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

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