

Maxim L.

Senior Senior Python Engineer for Data Spaces

SUMMARY

Versatile Software Engineer with 9 years of experience, bringing a strong background in computer science, particularly in backend development, data processing, and cloud services. Specialized in Python and proficient with frameworks like FastAPI, Django, and Flask. Has engineered complex ETL pipelines, optimized databases including PostgreSQL and Redis, and implemented cloud solutions using AWS and Azure. Excelled in DevOps practices with tools such as Docker, Kubernetes, and Terraform. Demonstrated capability in building scalable, secure applications and services, evidenced by successful project delivery in domains such as e-commerce, human resources, and cybersecurity. With hands-on experience in Stripe payment systems and expertise in system integration, this candidate is equipped to tackle challenging roles in the tech industry.

TECHNICAL SKILLS

Main Technical Skills	Python (9 yr.), FastAPI (3 yr.), Django REST framework (6 yr.), Flask (3 yr.)
Programming Languages	Python (9 yr.)
Python Frameworks	Django REST framework (6 yr.), FastAPI (3 yr.), Flask (3 yr.)
JavaScript Libraries and Tools	p5.js (3 yr.)
Databases & Management Systems / ORM	Clickhouse, MongoDB (3 yr.), SQLCIPHER (3 yr.)
Platforms	1C (3 yr.)
Deployment, CI/CD & Administration	CI/CD, GitLab CI (6 yr.), Helm (3 yr.)
Collaboration, Task & Issue Tracking	Cron
SDK / API and Integrations	FastAPI (3 yr.)
Version Control	Git (9 yr.), Github Actions (3 yr.)
Web/App Servers, Middleware	Nginx (3 yr.)

Virtualization, Containers and Orchestration	VmWare (3 yr.)
Other Technical Skills	Multithread (3 yr.)

WORK EXPERIENCE

Software Engineer, SAP Log Forwarding Automation System

Duration: 02.2022 - Present

Summary: Application for integration between SAP services and SIEM system which allowed to gather all required logs from different SAP services, redact them and send them to SEIM for threat analysis and anomaly detection to prevent cybersecurity-related threats and attacks.

Responsibilities: Designed and implemented ETL pipelines to extract, normalize, filter, and enrich logs from multiple SAP services before passing them into multiple SIEM systems; Created custom orchestration solution for log collection application to allow multi-node setup; Architect application using multithreading and multiprocessing to efficiently handle concurrent tasks; Configured environment-specific secrets in GitLab CI/CD Pipelines to securely handle API keys, database credentials, and other sensitive data; Implemented SSL-encrypted connection for reliable data transfer to SIEM system, focused on error handling, congestion control, and maintaining connection integrity; Created set of CLI and REST API for convenience of application management; Implementing multiprocess-based controller for automated managing of different extraction and upload tasks; Implemented licence signing and verification algorithms to avoid license forging; Configured SQLCipher for secure storage of application configuration and license; Tested and optimized different multiprocessing IPC mechanisms such as Pipes, Queues, shared memory, etc.; Implemented different caching and overall optimization techniques to increase application performance; Writing unit and integration tests.

Technologies: Python, Multiprocessing, Multithreading, Cron, Click, FastAPI, SQLAlchemy, Alembic, Pydantic, Azure (Virtual Machines, Active Directory, Azure Monitor, etc.), SQLCipher, VMWare, GitLab, GitLab CI, Linux, Bash, RedHat Enterprise Linux

Software Engineer, Recruitment Platform

Duration: 11.2018 - 02.2022

Summary:

- Product which allows talents to find a job and companies to hire people
- It provides companies an ability to host online and offline events for promotion of their corporate culture
- For company's members, it provides an opportunity to take courses about different topics

Responsibilities: Closely communicating with Product team and stakeholders to align engineering team's work with business expectations and deadlines; Communicating with the clients and their tech teams directly to gather requirements and provide best user experience possible; Designed and implemented distributed microservices architecture while ensuring high fault tolerance, scalability and availability; Built data ingestion and enrichment



pipeline for talents data; Participated in all software development end-to-end product lifecycle phases; Built data pipeline for third-party OCR vendor integration; Utilized Helm for versioning of various microservices deployments, hardware resource utilization management and deployment automation; Defined and updated over time different Kubernetes(k8s) manifests for such entities as Deployments, StatefulSets, DaemonSets and Services; Using Terraform to describe infrastructure side of microservices and all cloud services associated with them; Mentoring juniors and support middle developers; Utilizing AWS EventBridge to build event-driven architecture and asynchronous communication between microservices.

Technologies: Python, Flask, FastAPI, SQLAlchemy, Alembic, Pydantic, Redis, MongoDB, AWS (RDS, EKS, EventBridge, DynamoDB, SNS, Lambda, S3, SES, etc.), Elasticsearch, Kafka, PostgreSQL, Celery, Terraform, GitLab, GitLab CI, Helm, Docker, Docker Compose, Nginx, Kubernetes(k8s), Linux

Software Engineer, Music Marketplace

Duration: 10.2015 - 11.2018

Summary: Product which connects artists who want to sell demos to produce additional income sources with labels and recording companies who want to find music for promo campaigns, resell those demos, etc.

Responsibilities: Contributed to the design of CI/CD pipelines with Jenkins for seamless deployment, reducing manual intervention and improving deployment speed; Participated in troubleshooting and incident response efforts during production issues, minimizing downtime and implementing measures to prevent future occurrences; Implemented the Stripe integration to the product to handle all payment processing; Configuring AWS S3 buckets Security Groups for fine-grained data access restrictions; Integrated external services with the application, leveraging AWS Cognito and IAM for secure identity verification of applicants; Writing and optimizing complex SQL queries for data analysis and reporting in PostgreSQL database; Developing and implementing systematic troubleshooting procedures, reducing issue resolution time and enhancing overall system reliability; Deployed and managed containerized services using Docker and AWS ECS.

Technologies: Python, Django, Django Rest Framework, Stripe Connect, Stripe Payments, Stripe Billing, AWS (Route 53, VPC, ECS, EC2, RDS, ElastiCache, SNS, Lambda, S3, SES, etc), PostgreSQL, GitHub, Jenkins, Docker, Docker Compose, Linux

EDUCATION

- **Computer Science and Software Engineering**

CERTIFICATION

- **Stripe Certified Professional Implementation Architect**
- **Stripe Certified Professional Developer**

