Senior Backend Engineer

Baruch Leiman

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**Summary**

* 10+ years of experience as a Software Developer at global hi-tech companies, including **Synamedia**, **Cisco**, and **NDS**.
* Experienced Software Engineer with expertise in **Node.js, Python, and C**, specializing in performance and scalability. Familiar with **C++**, **Lua**, and **Go (Golang)**.
* Experienced with cloud platforms like **AWS** and **Kubernetes**, along with infrastructure and deployment tools such as **Docker**, **Terraform**, **CloudFormation**, and **Jenkins**, supporting efficient CI/CD processes.
* Strong experience in testing methodologies, including component testing with **Pytest**, **Mocha/Chai**, as well as **CI/CD automation tests** and performance testing. Hands-on experience in **Bash** scripting.
* Adept at using monitoring and analytics tools like **Prometheus, Grafana, and Kibana** to maintain system performance and reliability.
* Solid knowledge of REST API development using Express.js, OpenAPI, and Flask
* Skilled in using VSCode, Git, and Jira for development and project management
* Knowledgeable in **WebRTC, MPEG-DASH, DOCSIS**, and network technologies.Solid foundation in embedded systems and real-time programming, with an understanding of system constraints and optimization techniques.

**Experience**

2018 - 2025 **Backend Engineer**, Synamedia

* Focused on **backend** systems for **personalized recommendations** and **large-scale content delivery**.
* Built scalable **backend** services using **Node.js**, **Kubernetes**, **MongoDB**, **DynamoDB**, **Redis**, and **AWS** tools—ensuring performance and observability.
* Led integration of a 3rd-party recommendation engine with **backend design, data modeling, testing, and monitoring**.
* Developed **Jenkins, Ansible, Salt, and CloudFormation script**s. Use**d Python/pytest and Mocha/Chai for test**s, and Vegeta for performance. Monitored with **Prometheus, Grafana, and Kibana**.
* Migrated legacy systems to SaaS using **serverless AWS tools**. Also contributed to **C/C++ client cod**e, Go/GStreamer middleware, and ad hoc **Lua/Nginx/MySQ**L tasks.

2013 - 2018 **Software Engineer**, Cisco

* Engineered a **Python/pytest** testing framework for a high-throughput CRUD gateway—covering unit/integration tests, CI (Jenkins), and schema validation—significantly reducing errors and widely adopted.
* Built and maintained **Alexa backend integrations.**
* Contributed to a **cloud-based OpenStack video solution** in an **Agile** team.
* Supported **C/C++ video middleware:** perf tuning, Valgrind, gdb, and **QA-level production support**. Handled DevOps tasks, **root cause analysis**, and improved **system reliability**.
* Built a backend **Flask/Python/MongoDB app** with a REST interface and provided customer integration support..

2011 - 2013 **QA Engineer/ Staff Engineer**, NDS

* Promoted to Staff Engineer for **outstanding accomplishments** in **on-site bug investigations** and **E2E troubleshooting** of customer-observed issues.
* Contributed to NDS in networking, **low-level debugging**, **full-stack debugging**, and data analysis.
* **Designed a new system for monitoring** and debugging two-way processes, set to play a key role in the upcoming Gateway ecosystem.
* Provided **system integration** for the latest product, bridging testers and development teams to address robustness, memory leaks, network issues, OOPS, and core crashes.
* Developed and utilized **Python scripts** for advanced log analysis.

**Tools and Technologies**

**Programming Languages**: C/C++, Node.js(express), Python (Flask), Golang and Lua

**Technologies**: WebRTC, MPEG-DASH, AWS, Kubernetes, Docker, Jenkins, Git, Prometheus, Grafana

**Testing frameworks**: pytest, mocha/chai

**Protocols**: Docsis, TCP/IP, E1, T1, DS3

**Methodologies**: Agile, Scrum, DevOps

**AWS services**: EKS, Lambda, CloudFront, EC2, Load Balancer, Secret Manager, VPC, IAM, Route 53, S3, DynamoDB, etc.

**Multi-tenant** SaaS development, APIs, and Microservices.

**Languages**

**Hebrew** - fluent | **English** – native