

ALEX SILVER Software Engineer

alexaaronsilver@gmail.com | www.asilvr.com | [linkedin.com/in/alexaaronsilver](https://www.linkedin.com/in/alexaaronsilver) | github.com/asilvr

Experience

Software Architect, Intel Corporation (Irvine, CA)

September 2016 - Present

Intel creates hardware and software for any type of compute platform. Our edge computing product Smart Edge provides a way to orchestrate and run low-latency or bandwidth-intensive compute workloads on a private 4G and 5G edge network, within a hop of the end user's device. Smart Edge was acquired by Intel in October 2019.

- Promoted from Engineer to Lead to Architect by working with customers to consistently deliver functionality that solves their use cases.
- Designed product UX for the UI (React) and API (HTTP REST) to support enterprise management of edge compute nodes.
- Contributed to security plans which include the use of X.509 certificates, IPsec and mTLS to improve product security posture.

Software Engineer in Test, Numecent (Irvine, CA)

November 2015 - June 2016

Numecent creates software to virtualize Windows and Linux applications with a small footprint, while also providing a way to manage licenses and updates.

- Consulted development teams in order to diversify test plans with methods such as black box, white box and acceptance tests.
- Executed test plans to exercise the main software products, including the Cloudpaging Server, Player and CDN applications.
- Automated persistence testing, using methods such as database bootstrapping and seed data to improve test case coverage.

Software Development Engineer, XXIV (Calabasas, CA)

August 2014 - November 2015

XXIV creates live production events and management software and solutions for its clients.

- Worked with event clients to design strategies for web and e-commerce presence to improve their digital productivity.
- Designed tooling for inventory and quotes to help aggregate known prices across vendors for producing accurate quotes.
- Maintained a ticketing system for events to improve credential (badge) issuance and yield more efficient event check-in.

Skills

Languages: Go, Java, Python, Swift, C, C++

Tools: GitLab & GitLab CI, GitHub & Travis CI, JIRA, VSCode, PlantUML, Vault, AWS (EC2, S3, R53, ELB, CloudFront)

Technologies: Docker, Linux (CentOS, Ubuntu), strongSwan (IPsec), TLS Mutual Auth and X.509 Certificates, WebSockets, JSON HTTP REST, Protobuf & gRPC, MySQL, TCP/IP, 3GPP EPC/CUPS, DNS, Rsyslog, Statsd, IPTables

Methodologies: Agile, CI/CD, Git, microservices, public key infrastructure (PKI), semantic versioning (SemVer), test-driven development (TDD), edge computing (MEC), software agent pattern

Education

B.S. Computer Science, University of California, Irvine (Irvine, CA)

September 2012 - June 2016

- **Specialization:** Information Systems
- **Relevant courses:** Projects in Algorithms, Projects in Databases & Web Applications, Next Generation Search Systems, Machine Learning & Data Mining, Image Processing, Design & Analysis of Algorithms, Data Structures Implementation & Analysis, Programming in Python/Java/C/C++