

Joseph Nguyen

San Jose, CA | (408) 834-6318 | jo.josephqn@gmail.com
[linkedin.com/in/josephqn](https://www.linkedin.com/in/josephqn) | github.com/josephqn | josephqn.com

SUMMARY

Backend Software Engineer with 5+ years of experience designing, scaling, and owning high-throughput systems in production. At Proofpoint, led end-to-end delivery of a multi-source search platform and a Flink streaming pipeline processing millions of events per day, driving meaningful improvements in latency, throughput, and operational reliability. Combines deep systems thinking with a bias for measurable impact — comfortable owning architecture decisions, mentoring peers, and shipping at scale.

PROFESSIONAL EXPERIENCE

Software Engineer II

Proofpoint, Sunnyvale, CA, *Feb 2022 – Present*

- Owned end-to-end design and delivery of a multi-source search platform powered by an AST-based query engine, enabling unified querying across multiple backend data sources and serving millions of requests — led technical design, cross-team alignment, and rollout.
- Drove a 30% improvement in processing efficiency by architecting and optimizing an Apache Flink streaming pipeline handling millions of events per day; identified bottlenecks through profiling and redesigned key processing stages.
- Built a multi-threaded OpenSearch query execution layer to parallelize search workloads, achieving ~2x throughput improvement under peak traffic — designed the concurrency model and reviewed all PRs through delivery.
- Reduced latency of critical API endpoints by 40% through strategic Redis caching and request path optimization; presented the approach and results to engineering leadership.
- Established observability standards using Kubernetes, Splunk, and Grafana, cutting production incident detection time by ~50%; served as the primary on-call escalation point for the search and streaming platform.
- Mentored junior engineers through code reviews, design sessions, and pairing — contributed to a team culture of technical rigor and continuous improvement.

Software Developer

Epic Systems, Madison, WI, *Aug 2020 – Jul 2021*

- Resolved high-priority production incidents affecting healthcare systems, improving platform stability and reducing escalations.
- Cut application load time from ~5s to under 2s by diagnosing slow queries and redesigning pagination logic.
- Migrated legacy VB-based functionality to a modern JavaScript architecture, reducing feature delivery time by ~30% and improving long-term maintainability.
- Built reusable React component systems adopted across multiple teams, reducing frontend development time by ~25%.

EDUCATION

B.S. Computer Science

San Jose State University, 2016 – 2020

GPA: 3.9 · Summa Cum Laude · President's Scholar · Dean's Scholar

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python

Backend: Spring Boot, gRPC, Apache Flink, Node.js

Infrastructure: AWS (API Gateway, Lambda, Kinesis), Kubernetes, Docker, Jenkins

Databases: OpenSearch, Redis, MySQL, PostgreSQL

Frontend: React, Redux, HTML, CSS

Observability: Splunk, Grafana

Tools: Selenium, TestNG, CI/CD