

Senior Software Engineer at Intuit building search infrastructure serving millions of daily requests. Specialized in backend systems, distributed architecture, and performance optimization at scale.

## EXPERIENCE

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- **Intuit** Mountain View, CA  
*Senior Software Engineer - Search* *Feb. 2025 - Present*
  - Built GraphQL-based Search Service using Kotlin and Spring Boot, unifying data access across QuickBooks microservices as the primary search backend serving 20M+ daily requests
  - Engineered reactive service using Kotlin coroutines and optimized thread pools, reducing infrastructure costs by improving concurrent request handling with lower CPU/memory footprint
  - Designed object-oriented search provider framework, accelerating feature velocity and enabling rapid integration of new search clients
  - Architected intelligent cache invalidation system for search results using Valkey/ElastiCache, achieving 80% latency reduction, 40% hit rate, and reduced infrastructure costs
  - Developed AI-powered semantic search using vector embeddings, enabling natural language query processing and complex search operations
  - Created performance testing framework using WireMock to simulate faults and progressive load in pre-production, preventing incidents and enabling confident scaling
  - Established CI/CD pipeline for weekly releases with comprehensive instrumentation and on-call alerting infrastructure
  - Contributed to MCP-based agent for Claude that auto-generates Wavefront dashboards from application metrics, enabling engineers to bootstrap observability in minutes instead of hours
- Software Engineer II - Search* *Feb. 2023 - Jan. 2025*
  - Modernized QuickBooks search bar UI using React Hooks and responsive design, increasing search adoption by 30% through improved user experience
  - Designed and implemented full-stack self-service portal (React + Java REST API) during hackathon, enabling PMs to manage search routes and eliminating manual engineer uploads
  - Architected AWS S3 data pipeline to migrate static search routes from legacy service to modern search backend
- Software Engineer - Audit Log* *Sep. 2021 - Jan. 2023*
  - Led Transaction History redesign as part of monolith-to-microservices migration, building React components for new backend architecture
  - Built high-demand CSV export feature using parallel API requests and client-side aggregation, serving 10K+ daily users
- Software Engineer Intern* *Jun. 2020 - Sep. 2020*
  - Delivered mobile-first responsive UI improvements for QuickBooks web app
- **Tapestry Solutions** San Luis Obispo, CA  
*Software Developer* *Jul. 2018 - Dec. 2019*
  - Built React-based inventory management system for military supply chain operations

## PROGRAMMING SKILLS

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**Languages:** Kotlin, Java, JavaScript/TypeScript, Python, SQL

**Frameworks & Tools:** Spring Boot, React, Node.js, GraphQL, Elasticsearch, Redis, Docker

**Cloud & DevOps:** AWS (S3, EC2, Lambda), Kubernetes, CI/CD Pipelines, Microservices Architecture

## EDUCATION

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- **California State Polytechnic University** San Luis Obispo, CA  
*Bachelor of Science in Computer Science* *Sep. 2016 - Mar. 2021*