

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  
*Feb. 2025 - Present*
  - *Senior Software Engineer - Search*
    - 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  
*Jul. 2018 - Dec. 2019*
  - *Software Developer*
    - 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  
*Sep. 2016 – Mar. 2021*
  - *Bachelor of Science in Computer Science*