

# Khang Lam

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## PROFESSIONAL SUMMARY

Software Engineer II with 5+ years in backend development and automation. Expert in Java, Spring Boot, and microservices, I design scalable APIs and CI/CD pipelines for enterprise insurance systems. Deeply passionate about recent AI advancements, I continuously explore and integrate the latest advancements to build autonomous tools that streamline workflows and cut resolution time by 40% for my team in Mercury Insurance. Recognized by several teams as the go-to mentor for modern AI-driven development practices in fast-paced Agile environment.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript.

**Tools & Frameworks:** MCP, Spring Boot, REST API, Postman, OpenAPI, Docker, Jenkins CI/CD, Kubernetes, Selenium, Git.

**Databases:** Cassandra, PostgreSQL, VectorStore (Qdrant), MongoDB.

## PROFESSIONAL EXPERIENCE

### Software Engineer II | Mercury Insurance | Brea, CA

Oct 2024 - Present

- Spearheaded MCP server adoption by building an orchestrated tool that automated routine Jira tasks end-to-end — analyzing issues, implementing fixes, and generating unit/integration tests — reducing turnaround time by 40%.
- Mentored cross-functional teams on MCP adoption, driving company-wide AI automation initiatives.
- Contributed to backend API development using Java and Spring Boot, integrating solutions into Mercury's flagship API ecosystem.
- Ensure code quality by maintaining unit test coverage above 70% to meet strict code quality standards.

### Senior Software Automation Engineer | Mercury Insurance | Brea, CA

July 2019 – Oct 2024

- Led automation initiatives using Selenium and Java, reducing test execution time by 75% and improved defect detection by 60%.
- Integrated automated test frameworks into CI/CD pipelines, improving deployment reliability.
- Led API parallel testing initiative, customizing the testing framework to handle execution of hundreds of test cases simultaneously, easily achieving over 500% faster execution and 40% earlier defect detection.

## PROJECTS

### AI-Integration - Workflow Automation Tool | JAVA, SPRING BOOT, MODEL CONTEXT PROTOCOL, RAG, GITHUB ACTIONS

- **Description:** End-to-end AI-powered tool that automates the full developer lifecycle of routine Jira tasks.
- **Technical Details:**
  - Developed an autonomous MCP-orchestrated AI agent that ingests Jira tickets, analyze issues, implements code fixes, and generates unit/integration tests to validate the solution. High accuracy achieved via custom RAG pipeline tailored for proprietary datasets.
  - Extended automation with GitHub Actions, improving code quality and reducing manual effort.
  - Designed a scalable, modular architecture, enabling adoption across multiple applications at Mercury Insurance.

### Web App – Job Application Tracker | JAVA, SPRING BOOT, JAVASCRIPT, REACT

[Live](#) | [Repo](#)

- **Description:** Full-stack web application for tracking job applications status, and follow-ups to streamline the job search process.
- **Technical Details:**
  - Built robust RESTful backend API using Java Spring Boot framework with structured database design.
  - Implemented AI-powered salary estimation system to provide accurate compensation insights for job applications.
  - Containerized application using Docker for consistent deployment and easy scalability across different environments.

### Web App – Youtube2Spotify | JAVASCRIPT, REACT, PYTHON

[Live](#) | [Repo](#)

- **Description:** Full-stack application that seamlessly converts YouTube playlists to Spotify playlists.
- **Technical Details:**
  - Integrated YouTube Data API v3 and Spotify Web API with smart song matching algorithms for accurate playlist conversion.
  - Implemented secure OAuth 2.0 authentication for both platforms without storing user credentials.
  - Designed smart algorithm to search Spotify for the best matching song based on YouTube video titles, artists, and durations.

## EDUCATION

### California State Polytechnic University | Pomona, CA

B.S. in Computer Science

May 2018

## ACHIEVEMENTS

- **Awarded for Outstanding Support:** Recognized by Mercury Insurance for simplifying complex technical workflows and empowering non-technical teams through training and support initiatives.
- **First Place – Code Day LA Hackathon (2015)** – Built multiplayer server for a cloned version of *Plants vs. Zombies*.

## CERTIFICATIONS

Oracle Certified Associate, Java SE 8 Programmer

October 2023

Certified CloudBees, Jenkins Engineer

December 2022

Certified SCRUM Developer

February 2022

ISTQB Foundation Level Certification

December 2021