

Khang Lam

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PROFESSIONAL SUMMARY

Software Engineer II with over 5 years of expertise in backend development and automation. Proficient in Java and Spring Boot, designing scalable APIs for enterprise systems. Pioneered adoption of Model Context Protocol (MCP) servers at Mercury Insurance, creating AI-driven tools that analyze Jira tickets, implement solutions with unit/integration tests, and cut turnaround time by 40%. Recognized as the go-to engineer for mentoring teams on integrating AI-powered workflows. Skilled in microservices, CI/CD pipelines, and Agile practices, delivering reliable, innovative solutions for mission-critical insurance applications.

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, 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, GITHUB ACTIONS

- **Description:** End-to-end AI-powered tool that automates the full developer lifecycle of routine Jira tasks.
- **Technical Details:**
 - Finds Jira ticket, analyzes the issue, implements code fixes, and generates unit/integration tests to validate the solution.
 - 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