

# Khang Lam

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## PROFESSIONAL SUMMARY

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Passionate and skilled Software Developer with a strong foundation in Java, Python, and JavaScript, and over 5 years of experience in software automation. Demonstrated expertise in automated testing and agile methodologies, with hands-on full-stack development experience through personal and academic projects. Proven track record of optimizing processes and enhancing code quality. Seeking to leverage my technical skills and project experience to contribute to innovative software development projects at a dynamic tech company.

## EDUCATION

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**California State Polytechnic University | Pomona, CA**

**B.S. in Computer Science | GPA: 3.7**

**May 2018**

**Relevant Courses:** Computer Organization, Data Structures, Foundations of Programming, Algorithms & Analysis

## TECHNICAL SKILLS

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**Programming Languages:** Java (Advanced), Python (Intermediate), JavaScript (Intermediate), C++ (Foundational)

**Tools:** Git, Selenium, REST API, ReactJs, Jenkins CI/CD, Agile/SCRUM

## PROJECTS

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**Full Stack Development - Youtube2Spotify | JAVASCRIPT, REACT, PYTHON**

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

- **Description:** Developed a full-stack application called **Youtube2Spotify** that seamlessly converts YouTube playlists to Spotify playlists.
- **Technical Details:**
  - Utilized the **YouTube Data API** and **Spotify Web API** for data retrieval and manipulation.
  - Implemented **OAuth 2.0 authentication** to securely allow users to log in to their Spotify and YouTube accounts.
  - Designed an **efficient algorithm** to search Spotify for the best matching song based on YouTube video titles, artists, and durations.

**Web App – VSCode Themed Portfolio | JAVASCRIPT, REACT, NEXT**

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

- **Description:** Developed a responsive web app for showcasing my contact information, skills and projects.
- **Technical Details:**
  - Leveraged the **React** and **Next.js** frameworks to create the portfolio.
  - Ensured optimal viewing across various devices.
  - Dynamically fetched and displayed live information from your **GitHub profile** using the **GitHub API**.

**Reinforcement Learning – Snake Game AI | PYTHON, OPENAI GYM, PYGAME, STABLE BASELINES3**

[Repo](#)

- **Description:** Engineered a Snake AI agent employing Rdiverse Reinforcement Learning algorithms to achieve high score.
- **Technical Details:**
  - Integrated with the **OpenAI Gym** framework for a standardized environment.
  - Implemented RL algorithms for intelligent decision-making, utilizing **Qlearning**, **OCR**, **PPO/DQN** techniques.
  - Leveraged the power of **Stable-Baselines3** interfaces for efficient training, and evaluate performance with **TensorBoard**.

## PROFESSIONAL EXPERIENCE

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

**July 2019 - Present**

- Leveraged strong programming skills in Java to optimize testing processes, reducing testing time by 75%.
- Conducted comprehensive code reviews for Mercury's flagship product line, ensuring strict adherence to coding standards. Improved overall code quality metrics by 60%.
- Adapted to significant organizational changes by implementing agile practices, ensuring smooth release processes at any stage.
- Successfully integrated automated tests into the CI/CD pipeline, contributing to a more efficient development workflow.
- Collaborated with cross-functional teams using Agile methodologies to address and resolve test reliability issues, reducing test failures by 30%.
- Developed automated test scripts in Java, JavaScript, JSON, MySQL, and API service calls.

## RELEVANT ACTIVITIES

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**Code Day LA Hackathon | Los Angeles**

**2015**

- First place team. Hosted multiplayer servers for what was once a popular game, Plants Vs. Zombies.

**Hackpoly Hackathon | Pomona**

**2017**

- Developed User-to-Root Attacks (U2R) detection program to detect and logging suspicious password activities.

## CERTIFICATIONS

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Oracle Certified Associate, Java SE 8 Programmer | Oracle University

October 2023

Certified CloudBees, Jenkins Engineer | CloudBees University

December 2022

Certified SCRUM Developer | ScrumAlliance

February 2022

ISTQB Foundation Level Certification | American Software Testing Qualifications Board

December 2021