



# Khang Lam

## Software Developer | Automation Engineer



### Experience

#### Mercury Insurance Company

QA Automation Engineer II

- Leveraged strong programming skills in in Java to optimize testing processes, reducing testing time by 75%.
- Conducted comprehensive code reviews as the code owner for Mercury's flagship product line, ensuring strict adherence to coding standards. This initiative contributed to a substantial 60% improvement in overall code quality metrics.
- Demonstrated the ability to adapt to huge organizational changes by accommodating to new changes at any stage of the release process.

QA Automation Engineer I

- Successfully integrated automated tests into the CI/CD pipeline, contributing to a more efficient development workflow.
- Collaborated with cross-functional teams in an Agile environment to address test reliability issues, yielding 30% reduction in test failures.

QA Automation Engineer Associate

- Aligned with cross-functional teams in Agile settings for effective communication throughout the software development lifecycle.
- Developed automated test scripts in Java, JavaScript, JSON, MySQL, and service calls.



### Projects

#### Full Stack Development: Youtube2Spotify

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

JavaScript React / Python Programming

- Developed a Python script utilizing the YouTube Data API and Spotify Web API to automatically convert YouTube playlists to Spotify playlists.
- Implemented OAuth 2.0 authentication to allow users to securely log in to their Spotify and YouTube accounts.
- Created an efficient algorithm to search Spotify for the best matching song based on the title, artist, and duration of a YouTube video.

#### Reinforcement Learning: Snake Game AI

[Repo](#)

Python Programming

- Developed a Snake AI agent using various types of RL algorithms (Q-learning, OCR, PPO/DQN), integrated with OpenAI Gym framework, to automate the classic game of Snake.
- Leveraged the power of Stable-Baseline3 interfaces for training and evaluating the model, and performance evaluation with TensorBoard.

#### Web App: VSCode Themed Personal Portfolio

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

React / Next / JavaScript Programming

- Visual Studio Code themed portfolio to showcase my skills, projects, and experience as a Software Developer enthusiast.
- Leveraged React and Next framework to create a responsive web app that is designed for optimal viewing across multiple devices.
- Using GitHub API to display live information about my GitHub profile.



### Education

#### California State Polytechnic University, Pomona

Bachelor of Computer Science  
Minor in Mathematics



### Activities

#### Code Day LA Hackathon

Participant

- First place award for team of four.
- Produced a multi-player platform version of the game "Plant vs. Zombie", where players can play against one another interactively.
- Hosted a test server for multiplayer interactions by using J2EE design patterns to bridge a connection Socket with server to client.



### Certifications

Oracle Certified Associate, Java SE 8 Programmer  
Certified CloudBees Jenkins Engineer  
Certified Scrum Developer  
ISTQB Foundation Level Certification

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#### E-mail

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#### Citizenship

U.S. Citizen

#### LinkedIn

[linkedin.com/in/khang-lam/](https://linkedin.com/in/khang-lam/)

#### Personal Portfolio

[khanglam.github.io](https://khanglam.github.io)



### Programming Languages

Java



C++/ C#



HTML5 & CSS



JavaScript



SQL



Python



### Other Skills

Git



Selenium / Web Drivers



JIRA



Agile/Scrum



REST API



Jenkins CI/CD



Node.js



React Js



PyTorch / TensorFlow



### Personal Certifications

- ✓ *Machine Learning* by Stanford Coursera
- ✓ *Neural Network* by Stanford Coursera
- ✓ *Structuring Machine Learning Projects* by Stanford Coursera
- ✓ *Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization* by Stanford Coursera

7/22 - Now

11/21 - 7/22

7/19 - 11/21

09/2013-  
06/2018

2015

10/2023  
12/2022  
02/2022  
12/2021