# Hei Lam (Jarvis)

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https://github.com/JarvisLam-LemonCEO?tab=repositories

## OBJECTIVE

Motivated and detail-oriented Software Engineering graduate student seeking internship opportunities in software development or computer engineering. Passionate about creating innovative, scalable solutions and applying academic and technical expertise to real-world projects that make a meaningful impact.

## EDUCATION

**B.S., Computer Engineering**

San Jose State University, San Jose, CA                                                    August 2020 - December 2024
Charles W. Davidson College of Engineering

**M.S., Software Engineering**

San Jose State University, San Jose, CA                                                    January 2024 - Present
Charles W. Davidson College of Engineering

**Relevant Coursework**: Software Systems Engineering, Information Security, Network Security, Software Security Technologies, Database Systems, Mobile Software Engineering,

## PROJECT EXPERIENCE

**Phishing Detection System**, SJSU                                                            Fall 2025
- Built a phishing detection app analyzing 517K Enron emails with heuristic scoring and IsolationForest anomaly detection.
- Integrated a local LLM (LM Studio) and Tkinter GUI to show hybrid risk scores and explanations for uploaded CSV email data.

**Fixing C/C++ Vulnerabilities with LLM**, SJSU                                                Spring 2025
- Developed an AI-assisted analyzer to find memory-safety issues (e.g., buffer overflows, race conditions) in C/C++ code.
- Used local LLM prompts to generate diagnostic steps and prioritized fix suggestions, tested on multiple open-source samples.
- Applied the tool to multiple open-source codebases, flagging unsafe patterns and helping prioritize fixes based on severity.

**Restaurant Booking Web App**, SJSU                                                            Spring 2025
- Developed and deployed a full-stack OpenTable-style reservation system with role-based access for Customers, Business Owners, and Admins.
- Implemented REST APIs in Node.js/Express and React-based UI components for search, booking, and restaurant management.
- Optimized Vite builds and component structure, improving page load time by ~30% and simplifying future feature updates.

## EXPERIENCE

**Chinese Campus Fellowship Activities Coordinator**, SJSU                                      August 2025 - present
- Coordinate joint cultural events (e.g., Mid-Autumn Festival with HKSA), handling games and promotion.
- Plan and host Praise & Worship Night, leading program design, rehearsal schedule, and on-stage coordination.
- Organize social events such as billiards and bowling nights to strengthen community engagement and member retention.

## SKILLS

**Programming Languages:** Python, Java, C/C++, JavaScript, HTML, SQL
**Frameworks/Tools:** React, Node.js, Express.js, AWS, Qt, LM Studio
**Database: MySQL | OS:** macOS, Windows, Linux | **Version Control:** Git/GitHub
**Language:** Native Cantonese and Mandarin speaker, and fluent in English

## Core Strengths

Analytical problem solving • Debugging • Secure, network-aware development • Algorithm design • ML/AI data analysis • Leadership & event coordination • Fast learning & strong ownership