

# Jackson Lam

510-816-7164 | [jacksonlam510@gmail.com](mailto:jacksonlam510@gmail.com) | [jacksonlam.dev](http://jacksonlam.dev) | [linkedin.com/in/jacksonlam227](https://linkedin.com/in/jacksonlam227) | [github.com/jackson0-0](https://github.com/jackson0-0)

## EDUCATION

---

### California State University Long Beach

Long Beach, CA

*Bachelor of Arts in Computer Science*

*August. 2022 – Present*

- Relevant Coursework: Software Development with Frameworks, Database Fundamentals, Data Structures and Algorithms, Object Oriented Application Development, Computer Architecture, Assembly Programming

### Laney College

Oakland, CA

*Associate's in Information Systems*

*August. 2024 – Present*

## EXPERIENCE

---

### AP Computer Science Tutor

June 2021 – Sep. 2021

*In-Person and Online*

*Oakland, CA*

- Tutored 4 students in Computer Science, resulting in a 75% pass rate with scores of 3–4 on the AP CSP exam
- Assigned coursework for fundamental CS concepts, assigned practice exams, and offered targeted tutoring to strengthen students' weak points from practice exams

### Academic Talent Development Program Web Design

June 2018 – Aug. 2018

*University of California, Berkeley*

*Berkeley, CA*

- Built and deployed responsive web applications using HTML, CSS, and JavaScript, applying DOM manipulation, event handling, and asynchronous data fetching to create dynamic user experiences
- Implemented frameworks like React learned to deploy project to a live server to simulate real-world development

## PROJECTS

---

### Pokemon Team Builder | *React, Node.js, Express, FastAPI, Python, MongoDB*

Jan. 2026 - Present

- Built a full-stack web app with a React frontend, Node.js/Express REST API, and Python FastAPI microservice deployed across Vercel and Railway
- Reduced frontend API calls by over 80 percent by aggregating multiple PokeAPI endpoints into a single Express route returning Pokemon names, types, stats, moves, and abilities
- Designed a multilayer caching system with node-cache and MongoDB to persist data across server restarts, alongside a custom FastAPI algorithm analyzing 6-Pokemon teams for offensive and defensive coverage

### Options Analytics Dashboard | *React, FastAPI, Python, NumPy, REST APIs*

Oct. 2025 - Dec. 2025

- Built a full-stack options analytics tool with a React frontend and FastAPI backend, running 20,000 path Monte Carlo simulations using Geometric Brownian Motion to estimate ITM probability and expected value
- Pulled live options chains and implied volatility from Yahoo Finance, computing per strike breakeven, profit probability, and mispricing ratios across 15 strikes for both calls and puts
- Designed a responsive dashboard with colorcoded EV heatmaps to spot trading signals and mispriced contracts across the full options chain

### Developer Portfolio Generator | *React, FastAPI, Python, SQLite*

May. 2025 - Aug. 2025

- Built a full-stack web application using React and FastAPI that allows CS students to generate a shareable developer portfolio card with a unique URL
- Designed and implemented a REST API with FastAPI and Python to handle card creation, storage, and retrieval from a SQLite database
- Connected a React frontend to a FastAPI backend using fetch to save and load user profile data

## TECHNICAL SKILLS

---

**Languages:** Python, JavaScript, TypeScript, HTML/CSS, C++, C#, Java, SQL

**Frameworks:** React, FastAPI, Express, Node.js, Flask, Next.js, Supabase, Django, Vite, Tailwind CSS

**Developer Tools:** Git, GitHub, VS Code, MongoDB, Vercel, Railway, Docker, PostgreSQL, SQLite, npm/pip

**Libraries:** pandas, NumPy, Matplotlib, Selenium, TensorFlow, requests, SQLAlchemy, OpenCV, scikit-learn, node-cache, Pydantic, yfinance