Christopher Liu

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EDUCATION

University of California, Santa Barbara — Expected Graduation: Dec. 2025
Bachelor of Science in Data Science

Cosumnes River College — Aug. 2022 - May 2024
Major: Computer Science

PROJECTS

Dash | *Flask, Python, SQLite, IEX Cloud API*
- Developed a full-stack eight-page web application for tracking investment portfolios and deployed to Render
- Integrated real-time stock quotes using the IEX Cloud API to provide up-to-date market information to users
- Managed user authentication, authorization features, stocks, prices, and transaction dates through the implementation of SQLite
- Handled real-time data updates through the implementation of asynchronous programming techniques in Flask

NeverLate | *Gmail API, Python, pandas, Twilio API*
- Reduced company tardiness by over 30% by developing a Python application to alert users of work shifts
- Parsed and searched for schedules in the user's inbox with Gmail API
- Utilized pandas for handling data analytics and locating the days the user worked
- Incorporated Twilio API to send SMS messages to the user
- Achieved an average run time of 0.6 seconds to search the schedule and send a message

StubPay | *React, JavaScript, HTML/ CSS*
- Developed a program that assists servers in evaluating the appropriate amount to withhold for taxes based on their self-reported tips
- Designed a responsive single-page application using React that validates user inputs and deployed to GitHub Pages
- Implemented JavaScript functions for repeatable tax calculations

Android Gratuity Calculator | *Kotlin, XML, Android Studio*
- Developed an android aplication that allows users to calculate how much to tip
- Built a responsive UI with ConstraintLayout, and a SeekBar that users can adjust for desired gratuity percentage

EXTRACURRICULARS

Software Engineer Fellowship — Aug. 2023 - Nov. 2023
100 Devs — *Remote*
- Spearheaded the complete software development life cycle of dynamic web applications, working with React on the front end
- Collaborated with a team of developers using Git, Jira, and Agile/Scrum methodologies
- Participated in code reviews, providing constructive feedback and contributing to the team's continuous improvement.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, Kotlin, SQL, HTML/CSS
Technologies: React, Node, Express, Flask, MySQL, pandas
Developer Tools: Unix/Linux, Git, Jupyter Notebook, Jira, Android Studio
Coursework: Data Structure and Algorithms, Object-Oriented Programming, Linear Algebra