Leo Tsunghan Lee

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EDUCATION

- **University of Southern California** — Los Angeles, CA
  M.S. - Computer Science, concentration in Data Science — *August 2023 - May 2025*
- **University of California, Santa Cruz** — Santa Cruz, CA
  B.S. - Computer Science, GPA: 3.82 — *October 2020 - June 2023*
  Courses: Full Stack Development, Mobile Application, Analysis of Algorithms, Probability and Statistics, and Computer Networks.

SKILLS

- **Languages**: JavaScript, TypeScript, Swift, Kotlin, React Native, C (Programming Language), Python (Programming Language), SQL, Bash
- **Tools**: Docker, Express.js, Node.js, GIT, XCode, Postgres, Android Studio, VS Code

EXPERIENCE

- **University of California, Santa Cruz** — Santa Cruz, CA
  Reader — *December 2021 - June 2023*
  - **Grading** :
    - Streamlined the process of pulling student repositories from GitLab and commit IDs from Canvas by writing efficient Bash scripts.
    - Prepared Python programs utilizing the ctypes library to conduct intensive and thorough testing of C functions for assignments.
    - Reviewed proofs in detail and provided comprehensive grading for assignments requiring mathematical proofs.

- **University of California, Santa Cruz** — Santa Cruz, CA
  Tutor — *March 2021 - June 2023*
  - **Office Hours**:
    - Conduct up to 10 hours of weekly office hours to provide comprehensive support to students in their computer science labs and coursework.
    - Employ strategic teaching techniques to break down lab assignments into achievable objectives and guide students to online manuals and videos to enhance their understanding of the materials.
    - Foster a positive and engaging learning environment to promote academic excellence and student success.

ACADEMIC PROJECTS

- **Stack Clone**:
  - Designed and implemented a Stack clone utilizing Kotlin, Swift, and React Native.
  - Effectively routing API calls for optimal data retrieval and storage.
  - Conducted testing on both the frontend and backend components, achieving code coverage and ensuring the intended functionality of all features.

- **Mail Clone**:
  - Developed a Gmail replica utilizing React states and hooks to dynamically update the mail interface.
  - Integrated Material UI library to ensure a well-tested and user-friendly interface.
  - Conducted comprehensive testing on the frontend, backend, and end-to-end using the React Testing Library and Puppeteer.

- **HTTP Server**:
  - Created a high-performance HTTP server capable of handling CRUD requests with any files.
  - Implemented multithreading using pthread and ensured no data race occurred.

HONORS AND AWARDS

- Graduated with Cum laude from University of California, Santa Cruz
- Received Dean's Honors in 4 quarters