Leo Tsunghan Lee

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Education

- **University of Southern California** — Los Angeles, CA
  Master of Science in Computer Science - Data Science — *August 2023 - May 2025*
- **University of California, Santa Cruz** — Santa Cruz, CA
  Bachelor of Science in Computer Science, GPA: 3.82 — *October 2020 - June 2023*
  Honors: Cum laude, Highest Honor in program.

  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, C++ (Programming Language)
- **Tools**: Docker, Express.js, Node.js, GIT, XCode, Postgres, Android Studio, VS Code

Experience

- **University of Southern California** — Los Angeles, CA
  Research Intern — *September 2023 - Now*
  - Researching efficient methods for outlier detection in large text corpora utilizing Unsupervised Machine Learning.
  - Intention to develop a Python Library facilitating outlier detection without user specified parameters.
- **University of California, Santa Cruz** — Santa Cruz, CA
  Grader — *December 2021 - June 2023*
  - Streamlined the process of pulling repositories from GitLab and commit IDs from Canvas by writing Bash scripts.
  - Prepared Python programs utilizing ctypes library to conduct intensive and thorough testing on assignments.
  - Reviewed proofs in details and provided comprehensive grading for assignments requiring mathematical proofs.
- **University of California, Santa Cruz** — Santa Cruz, CA
  Tutor — *March 2021 - June 2023*
  - Conducted up to 10 hours of weekly office hours to provide comprehensive support to students' labs and coursework.
  - Incorporated both online and in-person sessions to break down lab assignments into achievable objectives.
  - Partnered with TAs and Tutors to provide sessions for over hundred students

Academic Projects

- **Stack Clone**
  Project Owner — *April 2023 - June 2023*
  - Designed and implemented a Stack clone utilizing Kotlin, Swift, and React Native.
  - Routed API calls for optimal data retrieval and storage.
  - Performed testing on both frontend and backend components, achieving code coverage and ensuring intended functionality of all features.
- **Mail Clone**
  Project Owner — *September 2022 - December 2022*
  - 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.
  - Deployed comprehensive testing on frontend, backend, and end-to-end using the React Testing Library and Puppeteer.
- **HTTP Server**
  Project Owner — *April 2022 - June 2022*
  - Created a high-performance HTTP server capable of handling CRUD requests with any files.
  - Implemented multithreading using pthread and ensured no data race occurred.