

Jongwon K. Lee

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EDUCATION

University of California, San Diego

September 2024 - June 2026

Bachelor of Science in Computer Science

- Relevant Coursework: Web Client Languages, Machine Learning Algorithms, Software Engineering, Operating Systems Principles, Computer Architecture, Theory of Computation, Database Structures, Computer Vision

Ohlone College

August 2022 - May 2024

Associate of Science for Transfer in Computer Science, Mathematics

- Honors Student, Ohlone Engineering Society Secretary and ICC representative

WORK EXPERIENCE

Software Developer Intern / Frugal Innovation Hub SCU

June 2023 - August 2023

- Developed **Easy Tracker**, an Android personal finance application aimed at improving financial literacy for ESL users
- Implemented modular **Flutter (Dart) UI components** for transaction logs, portfolio visualization, and responsiveness
- Integrated **Firebase** for user authentication login page and real-time data synchronization
- Participated in **weekly technical debriefs** with cross-functional teams of students and industry professionals to review progress, incorporate feedback, and align development with project goals

PROJECTS

Personal Portfolio / Self Project

September 2025 - December 2025

- Designed and developed a responsive personal portfolio website to showcase projects, coursework, and technical skills
- Created **wireframe** and **user persona** in **Figma**, translating designs into structured pages and reusable UI components
- Implemented semantic **HTML** following **progressive enhancement** and styled pages using **CSS**, including gradients, **view transitions**, and device flexibility with **media** layout, spacing, and typography based on screen size
- Added **JavaScript**-driven interactivity, including **form validation**, **dark/light mode theming**, improving experience
- Built project module with **CRUD** functions, supporting data loading from local and remote storage via **HTTP** requests

Diamond Stock / Diamond Hacks - ACM

April 2025

- Collaborated in a team environment to develop **Diamond Stock**, a web application that educates users on investment concepts using real-time information sourced from the web during a competitive hackathon
- Implemented interactive frontend features using **TypeScript**, **HTML**, and **CSS** to support dynamic user workflows
- Integrated **AI** functions by configuring a **Gemini API** key to generate and randomize questions on user interaction
- Designed a structured format for reliable parsing and consistent rendering, storing processed data in **PostgreSQL**

Pokemon Learning Hub / Group Project

March 2025 - June 2025

- Developed the **home page** experience, integrating **images** and **nav links** to flashcards, games, and collection features
- Implemented a **collection page** to track and display captured Pokémon, supporting dynamic state updates
- Built a **dropdown filtering system** to allow users to filter collections by favorites and Pokémon type
- Included functionalities of **Progressive Web App** support and **service workers** for offline access and installability

Autonomous Arduino Cart / Team Lead

May 2023

- Designed **object-oriented C++ modules** to control motors and process input from **LED-based line-following sensors**
- Implemented control logic to enable **autonomous navigation by detecting a black tape path** using sensor feedback
- Led debugging, calibration, and iterative testing to improve navigation accuracy, stability, and overall system reliability

TECHNICAL SKILLS

Languages: C++, Java, Python, HTML, CSS, JavaScript, TypeScript, SQL, Dart

Libraries and Frameworks: React, Node.js, Pandas, Flutter

Developer Tools: Git, GitHub, Firebase, PostgreSQL, MySQL, Figma, Gemini API, REST/HTTP APIs, PWA