

Jongwon K. Lee

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EDUCATION

University of California, San Diego

Bachelor of Science in Computer Science

September 2024 - June 2026

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

Ohlone College

Associate of Science for Transfer in Computer Science, Mathematics

August 2022 - May 2024

- 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 Pokémons, supporting dynamic state updates
- Built a **dropdown filtering system** to allow users to filter collections by favorites and Pokémons 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