

# William Kim

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Los Angeles, CA

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## Certifications

- Free Code Camp [Responsive Web Design Certificate](#) - Sept 2021
- Google Cloud Platform [Professional Machine Learning Certificate](#) - May 2025

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## Soft Skills

Clear communication, Teamwork, Adaptability, Fast learner

## Languages

React.js, Next.js, Svelte, TypeScript, Kotlin, Swift, MySQL, PostgreSQL, Golang, Python, Bash

## Application Tools

Android Studio, Gradle, XCode, Visual Studio Code, Git, Github, Figma, Firebase, Docker

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## Experience

### Software Developer

Jun 2023 - Current

San Diego Supercomputer Center

- Implementing full-stack solutions for the [NeuroRes](#) mobile application used by UCSD Neurology residents.
  - Created REST API endpoints & web sockets in **Golang** to facilitate real-time messaging, utilizing **Postman** for thorough testing.
  - Designed and ran integration tests to validate code quality in our **CI/CD** pipeline using Docker containers.
  - Built a **Node.js** project using **Appium** and WebDriverIO to simulate user authentication in Web Views.
  - Developed MVVM components in **SwiftUI & Jetpack Compose** to improve user experience for messaging and journal exploration on mobile devices.
  - Presented live demos in front of stakeholders for product feedback and iteration prior to app deployment.
- Performed database migrations for the [Alzheimer's Disease Research Center](#) web application.
  - Worked with dev leads to execute migrations from Microsoft AccessDB to a PostgreSQL database, using a PgAdmin dashboard to validate consistency during data transfers.
  - Developed table schemas and API endpoints to retrieve clinical patient data for faculty and staff use.

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## Projects

[Portfolio Link](#)

### ACM Artificial Intelligence Website

- Redesigned the club's website using **React.js** ([ai.acmucsd.com](https://ai.acmucsd.com)) reaching 1000+ members.
- Created reusable stylized components for club event data and board member profiles.
- Designed a new AI competition portal, enabling users to create teams, view leaderboard rankings, and upload bot submissions. This was recently used for the club's [StarChess](#) tournament with 30 teams and 100+ participants.

### TabgMaps - Japan Restaurant Search Website

- Worked with two other developers to create a small **Svelte** website that allows users to find nearby restaurants in Japan.
- Designed the UI with SvelteKit, Google Places Autocomplete, and **Tailwind CSS** to facilitate geospatial searching.
- Built a Node.js endpoint to query restaurants from **MongoDB** based on the user's specified location, prefecture, cuisine, price range, and review ratings.

### TwoFrame.gg - Tournament Management Site for Gamers

- Collaborated with a team to build a full-stack app using Next.js and **Supabase**.
- Architected app routing, layouts, and pages for core features such as authentication, creating tournaments, and managing events.
- Designed the visuals for our bracket system using **Figma** and the ReactFlow Library.

### Video Game Development Club at UCSD Website

- Led the development team that launched a new SSR website ([vgdc.dev](https://vgdc.dev)) using **Next.js** and Tailwind CSS.
- Incorporated a **React Markdown** blog system to deliver club-related insights and stories to members.
- Worked with devs to add **Framer** animations to enhance frontend components.

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## Education

[University of California, San Diego](#)

B.S. Machine Learning and Neural Computation

Minor in Computer Science

Sep 2020 - Jun 2024

## University Coursework

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Data Structures & Algorithms, Software Engineering, Web Client Languages, Computer Graphics, Image Processing, Supervised Machine Learning, Neural Networks/Deep Learning, Parallel Computing with CUDA, Boolean Algebra & Finite State Machines, Numerical Analysis

## Other

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- One of several winners in the 2023 CSE Pixel Art Competition featured [here](#)
- Created art assets for a 2D platformer video game with friends published on [itch.io](#)
- Featured work on the official class [website](#) for my computer graphics course