

# Aaron Chan

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## Education

### University of California San Diego

San Diego, California

B.S. in Computer Science, Minor in Design

Jun 2025

**Courses:** Data Structures, Algorithms, Databases, Operating Systems, Systems Programming, Machine Learning, Software Tools, Java Programming, Python Programming, Statistics

## Technical Skills

**Languages:** Typescript, Javascript, Python, Java, C++, SQL, HTML, CSS

**Frameworks:** React, Next.js, Astro, Flask, Django

**Technologies:** Node.js, Express.js, PostgreSQL, Firebase, MongoDB, Docker, GraphQL, GitHub

## Experience

### ServiceNow - Software Engineer Intern

Jun 2024 – Sep 2024

- Implemented enterprise-scale AI feature that reduced case review time by 70%
- Optimized LLM integration by implementing batched queries and token optimization, achieving 32% speedup
- Leveraged prompt engineering and internal AI platform to rigorously test prompts and perform metric analyses

### UCSD Design Lab - Software Developer Intern

Jul 2023 – Sep 2023

*Tools Used:* Typescript, React, OpenAI API, Flask, Python, Clerk (Auth), MongoDB

- Engineered full-stack web application to support novice peer reviewers through PDF annotations and AI support
- Co-authored a **research paper** on the app's effectiveness in aiding novice peer reviewers, published at IUI 2024
- Leveraged GPT-4 to create dynamic contextual guided questions and interactive review outlines
- Utilized MongoDB to store annotation data and GROBID to accurately extract text and PDF coordinates

### UCSD Design Co - Lead Web Developer

Mar 2023 – Jun 2025

*Tools Used:* Typescript, HTML, CSS, Sass, React, Next.js, MongoDB

- Led a team of 4 web developers and worked with designers to build multiple **websites** with advanced interactions
- Spearheaded development of internal CMS tool used for streamlined event publishing, projected speedup of 300%
- Directed complete code rewrite for main site, increasing load speed by 220% and enhancing developer efficiency

### Triton Software Engineering - Software Developer

Nov 2022 – Jun 2025

*Tools Used:* Typescript, React, Express, Tailwind CSS, Next.js, MongoDB, Firebase

- Collaborated with a team of engineers and designers to develop a full-stack apps **Plant it Again** and **RideReadySD**
- Engineered accessible and responsive re-usable form component with client and server validation
- Implemented frontend & backend for profile picture uploads, using busboy to parse images stored in MongoDB
- Engineered reusable horizontal scroll component with dynamic progress tracking for modular UI sections

### Center for Applied Internet Data Analysis - Frontend Developer Intern

Feb 2023 – Sep 2023

*Tools Used:* React, GraphQL, CSS, PHP, Python, PostgreSQL, Prisma

- Developed infrastructure to migrate **database** with 5000+ records to PostgreSQL to improve data normalization
- Integrated Prisma ORM with GraphQL resolvers and created comprehensive database migration documentation
- Automated data entry using Python scripts, refactored code, and fixed various frontend and backend bugs

## Projects

### Unitivity - Full-stack Developer

Jan 2022 – Feb 2022

*Tools Used:* React, NextJS, Javascript, HTML, CSS, PostgreSQL, Prisma, Amazon S3

- Built **Unitivity**, a productivity social media website for users to create/share interactive graphs of custom data
- Designed frontend using React and Sass, supporting optimistic updates with React Query
- Leveraged Prisma ORM to interface NextJS backend with PostgreSQL database for simpler queries
- Utilized NextAuth and NextJS middleware to secure routes and support OAuth and Amazon S3 for image storage

### Portfolio - Frontend Developer

Mar 2023 – Apr 2023

*Tools Used:* Javascript, React, Astro, React Three Fiber (ThreeJS), CSS

- Integrated custom 3D model using ThreeJS into responsive, performant, and accessible **Astro website**
- Constructed accessible modal and utilized the nano store state manager for 3D model interactivity settings