Darren Hong

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Education

California Polytechnic State University, San Luis Obispo, CA

Bachelor of Science in Computer Science   June 2025

GPA: 3.613   Dean's List (Multiple Quarters)

Relevant Coursework: Data Structures, Algorithms, Systems Programming, Distributed Systems, Databases, Software Engineering, Human-Computer Interaction

Projects

Community Discord Bot   *Python, Discord API*

- Built a Discord bot used in an official community server operated by a company with over 17,000 members.
- Hosted the bot on an Oracle Cloud Compute instance for 24/7 uptime and scalability.
- Designed a modular, extendable architecture to enable future features.

Service Marketplace App Prototype   *Next.js, Docker, PostgreSQL, Prisma*

- Created a developer environment for a web application connecting homeowners with home-service professionals.
- Containerized the application using Docker for local development and deployment.
- Integrated Prisma ORM with a PostgreSQL database for efficient data management.
- Hosted and tested in a Docker environment to simulate real deployment scenarios.

Ad Timing Web Extension Research   *JavaScript, UX Research*

- Built a browser extension for YouTube that allowed users to manually trigger mid-roll ads within a specific window, mimicking YouTube's native interface.
- Implemented UI components to enable intuitive user control of ad timing.
- Conducted a user study to evaluate the impact on user experience and control.
- Analyzed qualitative and quantitative data, producing evidence that user-controlled ad timing can improve satisfaction and reduce perceived ad intrusiveness.

Event Tracker Website (In Progress)   *TypeScript, Next.js, AWS*

- Building a full-stack web application for event tracking using Next.js, Tailwind CSS, and TypeScript, with early users actively testing and providing feedback.
- Integrated Google OAuth for secure user authentication and registration workflows.
- Deployed a serverless backend architecture using AWS Lambda and Prisma ORM connected to an Aurora PostgreSQL database.
- Designed and implemented REST APIs to support dynamic thread and post creation, enabling user interaction around events.

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, HTML/CSS, C
Databases: PostgreSQL, MySQL, DuckDB
Other Tools: AWS, Cloudflare, Git, Linux, Docker, ESLint, Figma, React, Next.js, Prisma, Jest, Terraform, Vercel