

Chase Peterson

San Diego, California



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Education

UC San Diego

Bachelor of Science in Computer Science
Bachelor of Arts in Music with an Emphasis in Technology

September 2020 - June 2025

San Diego, California

GPA: 3.90/4.00

Classical Academy High School

Salutatorian
Rank 2/250

September 2016 - June 2020

Escondido, California

GPA: 4.48/4.00

Technical Skills

Languages Java, Python, HTML/CSS, JavaScript, TypeScript, C, C#, C++, SQL, R, MATLAB

Technologies/Frameworks React, React Native, Next.js, Node.js, Express.js, MongoDB, Firebase, WordPress, Godot, Unity

Developer Tools Git/GitHub, Figma, Unix, VS Code, Eclipse, Visual Studio, Vim, TailwindCSS, Vercel

Experience

Origin Golf

Full-Stack Software Engineer

June 2022 - Present

Vista, California

- Launched a full-stack **machine shop management website** to track all jobs in the machine shop. This tool **consistently facilitated day-to-day planning** and communication, and **saved hours** from searching for missing fixtures.
 - Built the management website in **Next.js**, a **React**-based framework, using a **MySQL database** interfacing with **Node.js** in the backend. Implemented responsive design to be compatible with **iOS and Android screens**.
 - Implemented a **momentary history page** to show the state of the shop at any moment in time, and a **history log** with a filter.
- Developed an **order management website** for tracking all active customer orders. This tool dramatically improved **workload awareness**, leading to more **dynamic workforce management** to scale with the needs of the company.
 - Designed the orders page in **Figma**, then created it using **Next.js**, **MySQL**, **Node.js**, and **TypeScript**.
 - Implemented a **history log** to track all changes to orders for ease of use.
- Created a **time-clock management tool** to decrease payroll time by an **estimated 30%**, and a **machine code conversion tool** both in **Java** and **React**. One of the conversion tool's many settings improved machine time by **3 hours per 1000 parts**.

TritonThenix

Software Engineering Internship

July 2024 - Present

UC San Diego

- Developed **50%** of the project's major front-end components in **React Native** with a emphasis on creating **highly customizable and reusable components** for covering more use cases and saving future development time.
- Led the integration of **Firebase** into the application, connecting the frontend application to a **Google Firestore database**.

Jacob's School of Engineering

Computer Science Tutor

January 2024 - March 2024

UC San Diego

- Served as a tutor for CSE 105, **Theory of Computation** at UC San Diego. Held weekly office hours, answered questions in class, wrote answer keys for exams, graded homework and exams, and proctored exams, among other responsibilities.

Leadership Opportunities

Technology Director for Video Game Development Club

September 2023 - Present

- Designed and developed a **new club website** with accessible event and news integration for other club members to use. Served concurrently as **treasurer**, overhauling the club's financial systems and records to manage the **\$3500 budget**.

Game Development Team Lead

October 2023

- Orchestrated the development of **Spellthief** with 5 team members, completing a video game using **Godot** in 2 weeks. Advised the team using **personal experience** from **8 previous game jams** as a solo developer.

Software Engineering Team Lead

September 2022 - December 2022

- Led a team of 10 students** to create **Roommate Hub**, an apartment management website, in **HTML**, **CSS**, and **JavaScript**. Coordinated **team meetings**, allocated tasks, and contributed **87 out of 454** commits, **achieving an A** in the class.

Computer Science Mentor

September 2023 - June 2024

- Served as mentor to **4 computer science students** at UCSD in the **Mentor Collective program**. Coordinated individual meetings **tailored to each mentee's needs**, including preparing lessons, resources, and answers to questions.

Awards

Salutatorian at Classical Academy High School

National Merit Commended Scholar

Provost Honors (Every Quarter Enrolled at UCSD)