Chase Peterson
San Diego, California

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Education

UC San Diego　　　　　　　　　　　　　　　　　　　**September 2020 - June 2025**
Bachelor of Science in Computer Science　　　　　　　　　　　San Diego, California
Bachelor of Arts in Music with an Emphasis in Technology　　　　　　GPA: 3.90/4.00

Classical Academy High School　　　　　　　　　　　**September 2016 - June 2020**
Salutatorian　　　　　　　　　　　　　　　　　　　　　　　Escondido, California
Rank 2/250　　　　　　　　　　　　　　　　　　　　　　　　GPA: 4.48/4.00

Technical Skills

Languages　Java, Python, HTML/CSS, JavaScript, TypeScript, C, C#, C++, SQL
Technologies/Frameworks　Unix, Git, VS Code, Eclipse, Vim, TailwindCSS, Figma
Developer Tools　Node.js, React, Next.js, GitHub, Express, MongoDB, Vercel, WordPress, Godot

Experience

Origin Golf　　　　　　　　　　　　　　　　　　　　　**June 2022 - Present**
Full-Stack Software Engineer　　　　　　　　　　　　　　　　　Vista, California

- Launched a full-stack **machine shop management website** to track all jobs in the machine shop. This tool **consistent 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 back-end. Implemented responsive design to be compatible with **iOS and Android screens**.
  - Created a **momentary history page** using the same tools, showing the exact state of the shop at any moment in time, and a **history log** with all changes viewable 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.
  - First designed the orders page in **Figma**, then created it using **Next.js**, **MySQL**, **Node.js**, and **TypeScript**.
  - Created a **history log** to track all changes to orders for ease of use.
- Created **several additional tools** and websites to increase efficiency:
  - Developed a **time-clock management tool** to decrease payroll entry time by an **estimated 30%**.
  - Built a **conversion tool**, once in **Java** for desktop users, and again in **React** for web users, to optimize manufacturing time. One of the tool's many settings improved machine time by **3 hours per 1000 parts**.
  - Designed a **new company website** to attract new clients with a **built-in contact form**.
- Leading an ongoing effort to sell golf putters **directly to customers**. This includes building an **eCommerce website**, finding suppliers, placing orders for parts, and **sales & marketing**.

Leadership Opportunities

Technology Director for Video Game Development Club　　**September 2023 - Present**

- Designed and developed a **new club website** with event and news integration for future use. Also served as **treasurer**, overhauling the club's financial systems and records to manage the **$3500 budget**, plus additional funding.

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.

Game Development Team Lead　　　　　　　　　　　　　　　**October 2023**

- Orchestrated the development of **Spellthief** with 5 team members, creating 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. Coordinated **team meetings**, allocated tasks, and contributed **87 out of 454** commits, **achieving an A** in the class.

Assistant Programming Teacher　　　　　　　　　　　**January 2017 - June 2018**

- Taught the **Robotics class** at **Classical Academy High School** for two semesters **while enrolled** as a student, supervised by the official teacher. **Designed a new curriculum** and **gave daily lectures** to teach **Java** programming.

Awards

Salutatorian at Classical Academy High School
National Merit Commended Scholar