




Chase Peterson

San Diego, California

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Summary of Qualifications

- Full-stack developer with experience creating websites using React.js and backend APIs using Node.js and MySQL.
- Leadership experience in software engineering using Agile methodologies to create projects.
- Able to learn fast. Adaptable and flexible with strong communication and leadership skills.

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

Relevant Coursework: Machine Learning, Computer Vision, Computer Architecture, Cybersecurity, Operating Systems

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, AWS, WordPress, Godot

Developer Tools Git/GitHub, Figma, Unix, VS Code, Eclipse, Vim, TailwindCSS, Vercel, Expo, Microsoft Office, Zoom, Google Meet

Experience

Origin Golf | Software Engineering Intern

June 2022 - August 2024

- **Independently developed and launched full-stack [machine shop organization](#) and [order management](#) websites:**
 - Created a MySQL database for both tools to maintain up-to-date information about the machine shop and company, as well as a complete history of all jobs and orders, interfacing with the front-end using an API built using Node.js.
 - Developed the front-end interfaces with Next.js (built on React.js) with a responsive UI designed in Figma. Created filterable history pages based on company feedback to view the full history of both tools, enabling user errors to be easily reversed.
 - Increased workload awareness and organization by an estimated 80%, leading to more dynamic workforce management to scale with the needs of the company and virtually eliminating the issue of overstaffing.
- **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.

Relevant Projects & Leadership Experience

TritonThenix | Software Engineering Intern

July 2024 - Present

- 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, implementing user registration and building a Google Firestore database.

Video Game Development Club | Technology Director & Treasurer

September 2023 - Present

- Designed and developed a [new club website](#) with accessible event and news integration. Developed the events system using the Google Sheets API, allowing our events team to easily update its information without technical skills.
- Served concurrently as treasurer, overhauling the club's financial systems and records to manage our \$3200 annual budget.

Game Jam Entries

December 2015 - Present

- Designed and developed a number of [video games](#), many of them as part of the bi-annual Ludum Dare game jams. Programmed each game with new game design ideas, music, art, and audio, all within 48 hours.
- Created a [custom 2D game engine](#) built in Java as the base, updating it and adding new features after every game jam.

Computer Science Mentor

September 2023 - June 2024

- Served as mentor to four 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.
- Regularly tutored two students in LeetCode, landing them both summer internships.

Custom CPU

May 2024

- Built a [custom CPU](#) in CSE 141L using SystemVerilog and a code assembler using Python to translate a custom-designed assembly language to machine code. Finished first in the class, achieving a perfect grade.

Awards

Salutatorian at Classical Academy High School

National Merit Commended Scholar

Provost Honors (Every Quarter Enrolled at UCSD)