

SERJO BARRON

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EXPERIENCE

Software Engineer Intern <i>BotStacks – San Francisco, CA</i>	10/2025 – Present
<ul style="list-style-type: none">Engineered onboarding flows using React and Next.js, reducing time-to-first-chatbot by 40% through streamlined UX improvements for SaaS platform.Migrated 50+ technical documents to BookStack using Docker, establishing standardized documentation practices.Developed dashboard UI components with React, TypeScript, and Tailwind CSS, implementing paginated views and responsive layouts for project management.	
Computer Systems and C Programming Reader <i>Baskin School of Engineering – Santa Cruz, CA</i>	09/2023 – 06/2024
<ul style="list-style-type: none">Graded and provided feedback on weekly lab reports for 200+ students in systems programming and C.Explained technical concepts clearly to support student learning and LaTeX formatting conventions.	
Tech Manager <i>Slug Anime and Manga Association – Santa Cruz, CA</i>	09/2023 – 06/2024
<ul style="list-style-type: none">Managed AV, streaming, and live troubleshooting for weekly meetings and SlugCon, a 1000+ person convention.Coordinated technical logistics and relayed setup plans across officers, volunteers, and event partners.Provided ongoing tech support and contributed to outreach and event funding initiatives.	

PROJECTS

LoFi Scape <i>React, Next.js, Tailwind CSS, Youtube Player API, Vercel</i>	10/2025
Engineered a minimal web application using the Youtube iFrame Player API to blend lofi music with custom ambient soundscapes, creating a focused, distraction-free environment.	
Chromatic <i>React, Next.js, Tailwind CSS, Node.js, Prisma & PostgreSQL, Spotify API, Vercel</i>	09/2025 – 10/2025
Engineered a full-stack web application that leverages the Spotify API, OAuth, and PostgreSQL to analyze user listening data and generate unique color palettes based on your top tracks and artists.	
Kept <i>React, Vite, Firebase/Firestore, Node.js</i>	07/2025 – 08/2025
Developed and deployed a productivity scheduler web application with a gamified system of XP, badges, and animations that increased user engagement by an estimated 20%.	
SmartMirror <i>React/React Native, Node.js, Electron, Python, BLE, Raspberry Pi</i>	01/2024 – 06/2024
Developed an IoT device and mobile app designed to reduce phone reliance in the morning and improve mental health. Orchestrated a real-time data exchange pipeline that achieved sub-second data transfer via Bluetooth Low Energy (BLE), enabling seamless communication between a Raspberry Pi and a React Native mobile app.	

SKILLS

- Programming Languages:** Python, C, C++, JavaScript, TypeScript, HTML, CSS, Verilog
- Frameworks & Libraries:** React, Next.js, Node.js, Express.js, Tailwind CSS, Vite, Electron, Firebase, Prisma
- Databases:** PostgreSQL, Firestore
- Tools:** Git, GitHub, Vercel, CI/CD, Docker, REST APIs, Visual Studio, Figma, LaTeX

EDUCATION

University of California, Santa Cruz Bachelor of Science – Computer Engineering - GPA: 3.70	09/2020 – 06/2024
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