

SERJO BARRON

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EXPERIENCE

Software Engineer Intern

10/2025 – 02/2026

BotStacks – San Francisco, CA

- Designed and implemented full-stack dashboard features integrating REST APIs and custom backend endpoints, enabling real-time project analytics that replaced manual status checks.
- Reengineered onboarding flow with React/Next.js, building distinct setup paths for free, pro, and team tiers that reduced configuration steps across all plan types and eliminated confusion around plan-specific features.
- Migrated 50+ internal documents to Docker-deployed BookStack wiki, creating single source of truth that eliminated version confusion across engineering and product teams.

Computer Systems and C Programming Reader

09/2023 – 06/2024

Baskin School of Engineering – Santa Cruz, CA

- 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

09/2023 – 06/2024

Slug Anime and Manga Association – Santa Cruz, CA

- 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

React, Next.js, Tailwind CSS, Youtube Player API, Vercel

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.

Chromatica

React, Next.js, Tailwind CSS, Node.js, Prisma & PostgreSQL, Spotify API, Vercel

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

React, Vite, Firebase/Firestore, Node.js

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

React/React Native, Node.js, Electron, Python, BLE, Raspberry Pi

Developed IoT smart mirror and companion mobile app reducing morning phone reliance, with BLE pipeline achieving sub-second synchronization between Raspberry Pi hardware and React Native clients.

SKILLS

- **Programming Languages:** Python, C, C++, JavaScript, TypeScript, HTML/CSS
- **Frontend:** React, Next.js, Tailwind CSS, Vite
- **Backend & Databases:** Node.js, Express.js, PostgreSQL, Firestore, Prisma, REST APIs
- **Tools & Infrastructure:** Docker, Git, CI/CD, Vercel, Figma, LaTeX

EDUCATION

University of California, Santa Cruz

09/2020 – 06/2024

Bachelor of Science – Computer Engineering - **GPA:** 3.70

Relevant coursework: Data Structures, Computer Architecture, Systems Programming, Computer Networks