# SERJO BARRON

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## EXPERIENCE

**Software Engineer Intern**                                        *10/2025 – Present*
*BotStacks – San Francisco, CA*

- Engineered and refactored user onboarding flows using React and Next.js, improving UX and streamlining the path from signup to dashboard for SaaS chatbot platform.
- Migrated documentation to BookStack using Docker, organizing 50+ technical documents from Notion.
- Conducted technical research and built proof-of-concepts for authentication systems, evaluating solutions and auditing codebase to prepare for AIM layer integration.

**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**                                                     *10/2025 – Present*
*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**                                                     *09/2025 – 10/2025*
*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**                                                          *07/2025 – 08/2025*
*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**                                                   *01/2024 – 06/2024*
*React/React Native, Node.js, Electron, Python, BLE, Raspberry Pi*

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**                           *09/2020 – 06/2024*
Bachelor of Science – Computer Engineering - **GPA:** 3.70