

ALEXIS VEGA

☎ 760-638-1053 ✉ alexisvvegab@gmail.com 🔗 linkedin.com/in/alexis-vega-10b496278/ 🌐 https://github.com/alexisvvega

Education

University of California, San Diego

September 2022 – June 2026

Bachelor of Science in Computer Science, Minor in Cognitive Science

La Jolla, CA

- Member of WIC (Women in Computing), TSE (Triton Software Engineering), PIB (Project in a Box), CSES (Computer Science and Engineering Society) and ACM (Association for Computing Machinery)
- Courses: Data Structures, Algorithms, Systems, Software Engineering, Databases, Discrete Math, Linear Algebra

Escondido High School

September 2018 – June 2022

General Education - GPA: 4.67

Escondido, CA

Experience

Helicoid Industries Inc.

June 2025 – Present

Software Developer, Social Media & Marketing Outreach Intern

Remote

- Conducted UX research, competitor analysis, and drafted updated sitemap to improve navigation and visual hierarchy.
- Created low-fidelity wireframes in Figma reflecting enhanced user flows, interactive components, and responsive layout considerations.
- Currently translating designs into code using HTML, CSS, and JavaScript to build a modern, maintainable site.
- Assisting with social media content strategy and campaign planning to increase brand awareness across platforms.

Instructional Assistant: Discrete Mathematics and Tutor Apprentice

January 2024 – Present

Tutor

La Jolla, CA

- Led students through challenging concepts such as logic circuits, proofs, and set theory, offering clarity during office hours and one-on-one sessions.
- Maintained and updated the course website, uploading lecture notes, assignments, and practice problems while organizing a dedicated textbook help page with relevant examples for self-study.
- Provided mentorship to first-time tutors, guiding them in developing strong tutoring techniques through detailed feedback and observations.

Triton Software Engineering Developer

November 2023 – Present

TSE Developer, Incoming TEST Developer Lead

La Jolla, CA

- Built full-stack web app as part of nonprofit team using React, Node.js, and MongoDB.
- Collaborated through agile sprints, Git workflows, and peer code reviews.
- Completed TEST bootcamp focused on HTML, CSS, JavaScript, Git, and system design fundamentals.
- **Selected as TEST(TSE Early Start Training Program) Developer Lead** for 2025–26: will lead bootcamp, manage junior dev team, and run equity-focused outreach to underrepresented students in tech.

Code2040

September 2023 – September 2024

Computer Science Fellowship

San Francisco, CA

- Selected for a competitive CS fellowship supporting racial equity in tech.
- Attended career-building workshops and collaborated with fellows on advocacy and professional development.

Projects and Publications

Psyches of Color Mobile App | React Native, Node.js, Express.js, MongoDB

Present

- Co-developing a full-stack, cross-platform mobile app supporting mental health in Black and Latinx communities.
- Build secure React Native components with TypeScript and mobile APIs; integrate environment variables.
- Contribute to both frontend and backend; participate in standups, pair programming, and code reviews.
- Test across Android and iOS for consistent performance and smooth user experience.

RootsAI | React, TypeScript, Figma, Whisper, Gemini, Letta

April 2025

- **Won Best Use of Letta** at UCSD's DiamondHacks; built a voice-powered, multilingual web app to help immigrant families apply for government assistance.
- Led front-end and UI/UX, designing high-fidelity wireframes in Figma and implementing responsive React pages.
- Built and styled core pages, implemented routing/navigation, and ensured front-end integration with backend API.
- Worked closely with teammates to ensure full-stack functionality, enabling AI-powered guidance via Whisper, Gemini, and Letta workflows.

YouLostIt | STM32, Embedded C

March 2025

- Designed a motion detection system using STM32 to simulate a lost-tag tracker, detecting inactivity via accelerometer.
- Implemented I2C and bluetooth communication and LED feedback for real-time motion alerts and item identification.
- Utilized ITM Console for debugging and optimizing hardware communication performance.

Technical Skills

Languages & Frameworks: Python(2+ years), Java(2 years), C/C++, CSS, Javascript, HTML(1+ years), React Native(1+ year), R, Latex, Typescript(2 years), React