ALEXIS VEGA

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Education

University of California, San Diego   **September 2022 – June 2026**
Bachelor of Science in Computer Science, Minor in Cognitive Science   *La Jolla, CA*
- Current student at Jacobs School of Engineering
- 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 Machinary)
- Relevant Courses: Data Structures, Discrete Math, Software Tools and Techniques, Calculus, Cognitive Science, Algorithm Analysis, System Organization and Programming, Linear Algebra

Escondido High School   **September 2018 – June 2022**
General Education   *Escondido, CA*
- GPA: 4.67 — Class Rank: 8/457
- 10 AP courses and involved in 5 clubs (NHS, Key Club, CSF(Officer), PLUS, Video)

Experience

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   *La Jolla, CA*
- Collaborated with peers and student mentors in a dynamic learning environment to develop an app
- Developing skills in effective communication, including asking questions, seeking help, and supporting team members.
- Gaining proficiency in technologies such as React.js, Node.js, and MongoDB through hands-on project experience.

Code2040   **September 2023 – September 2024**
Computer Science Fellowship   *San Fransisco, CA*
- Collaborated with Black and Latinx college-level computer science students from around the world.
- Career accelerator nonprofit program focusing on connecting, and mobilizing the largest racial equity community in tech.
- Participated in career-building workshops, and engaged in racial equity advocacy work.

Projects and Publications

YouLostIt | *STM32, Embedded C*   **Present**
- Designing a motion detection system on STM32 to simulate a lost-tag tracker, detecting inactivity via an accelerometer.
- Implementing I2C communication and LED feedback for real-time motion alerts and lost item identification.
- Debugging with ITM Console to optimize hardware communication and ensure reliable system performance.

Psyches of Color Mobile App | *React Native, Node.js, Express.js, MongoDB*   **Present**
- Developing a mobile app for Psyches of Color, a nonprofit organization raising mental health awareness for Black and Latinx communities.
- Collaborated with team members to establish coding standards using Prettier and ESLint, ensuring maintainable and high-quality code.
- Implemented React Native components and integrated environment variables for secure handling of sensitive information.

ACM Hack School Web Development Bootcamp | *MERN Stack*   **December 2024**
- Participated in ACM's 6-week MERN stack bootcamp focused on full-stack web development for beginners.
- Building a travel journal web application from scratch, learning front-end and back-end development.

Mario's Playground | *HTML, CSS, JavaScript, GitHub*   **December 2024**
- Part of a WIC project team developing an engaging Mario-themed site with quizzes and games.
- Contributing a maze-style game feature for users to play, integrating game design and navigation elements.

NovaSpero Nonprofit Website | *Squarespace*   **June 2024**
- Collaborated with a nonprofit organization to enhance accessibility and user experience for refugee students.
- Led user needs meetings and implemented Google Calendar integration for seamless scheduling on the site.

Technical Skills

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

Languages

English: Professional proficiency   **Spanish**: Advanced proficiency