

Luis Fernando Villalon

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EDUCATION

San Diego State University

Graduation: May 2027

Bachelor of Science: *Computer Science*

Relevant Coursework: Object-Oriented Programming, Data Structures, Algorithms, Software Systems, Operating Systems, AI

Academic Clubs: ColorStack, STEM Advantage, Society of Hispanic Professional Engineers, Association of Computing Machinery

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C++

Frontend: HTML, CSS, React.js, React Native, Next.js, Tailwind CSS

Backend & APIs: Node.js, FastAPI, RESTful APIs

Databases: MongoDB, Firebase, PostgreSQL, Supabase

PROFESSIONAL EXPERIENCE

Computer Science Intern

[Second Course](#) - San Diego, CA (Hybrid)

Nov. 2025 - Jan. 2026

- Refactored and documented a rapidly AI-generated React Native codebase (TypeScript, CSS, Firebase), reducing technical debt by 30%+ and improving maintainability to accelerate the app's launch timeline.
- Collaborated directly with the technical founder in weekly agile planning sessions to prioritize high-impact features, increasing development velocity and improving feature readiness for App Store submission.
- Enhanced app stability and user flow by debugging core components and optimizing front-end logic, contributing to a smoother MVP experience aimed at reducing food insecurity for 10,000+ college students.

Front-End Intern

[Sports Excitement LLC](#) - New York, NY (Remote)

Dec. 2024 - Mar. 2025

- Engineered responsive, production-ready interfaces using React.js and Tailwind CSS, translating Figma designs - including the login page and key form components - into functional code, accelerating the site's launch timeline by 20%.
- Collaborated within a 12+ member Agile/Scrum team for sprint planning, daily stand-ups, and task tracking, ensuring consistent on-time feature delivery and alignment across development cycles.

Software Engineer Intern (Asset Tracker)

[Ectron Corporation](#) - San Diego, CA (Hybrid)

May 2024 - Aug. 2024

- Engineered the full-stack "Asset Tracker" platform using React.js, Next.js, Plasmic CMS, Node.js, Express.js, and PostgreSQL, integrating Azure IoT data from 8+ sensors with Azure Maps and CSS animations to provide real-time asset monitoring across 5+ client facilities.
- Led a team of 3 intern engineers as the sole full-stack developer, delivering a production-ready solution projected to reduce asset retrieval time by 40% and streamline operations for client companies adopting the product.

LEADERSHIP

Outreach Chair

ColorStack (San Diego State University Chapter)

Feb. 2026 - Present

- Co-funded campus ColorStack chapter and serve as Outreach Chair, leading recruitment strategy and digital presence across social media, email, and Discord.
- Network with industry professionals and campus organizations to connect members with career opportunities; drove member growth through tabling, classroom pitches, and targeted outreach.

PROJECTS

kanso - [Front-End GitHub Repo](#) | [Back-End GitHub Repo](#) - (Personal Full-stack Project)

Jan. 2026 - Present

- Built a responsive frontend with Next.js, React.js, TypeScript, and Tailwind CSS that connects to a backend API to enable authenticated users to create, edit, delete, filter, and visualize tasks, habits, notes, and tags data with real-time statistics and intuitive UI interactions.
- Developed a FastAPI backend with PostgreSQL to power a task tracker web app, implementing RESTful CRUD endpoints for tasks and tags with relational associations, data validation, CORS support, and seamless frontend integration.

The Crash App - [GitHub Repo](#) - (Hackathon Most Creative Winner, Full-stack Project)

Nov. 2025

- Developed a full-stack reporting platform in TypeScript, React.js, Next.js, and Tailwind CSS during a 48-hour Innovation 4 SDSU hackathon, enabling students to submit hit-and-run reports with images, license plate details, timestamps, and contact info, storing all submissions in a structured JSON-based system for lookup and insurance download.
- Collaborated with three teammates to design a verification workflow and user-lookup feature, allowing students to search 100% of submitted reports by license plate and earn redeemable "Crash Coins," incentivizing higher reporting accuracy and engagement.