

Luis Fernando Villalon

(760) 234-2481 | lvillalon1179@sdsu.edu | [LinkedIn](#) | [GitHub](#) | [Web Portfolio](#)

EDUCATION

San Diego State University

Bachelor of Science: *Computer Science*

Graduation: May 2027

GPA: 3.00

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

Academic Clubs: ACM (Association of Computer Machinery), SHPE (Society of Hispanic Professional Engineers), AI Club, App Dev

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript (TypeScript)

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

Backend & APIs: Node.js, Express.js, REST APIs

Databases: MongoDB, Firebase, PostgreSQL

Version Control: Git, Github

Deployment & Hosting: Netlify, Render, Vercel, Github Pages

Design & CMS: Figma, Plasmic CMS

PROFESSIONAL EXPERIENCE

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

Computer Science Intern

Nov. 2025 - Present

- 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.

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

Front-End Developer Intern

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.

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

Software Engineer Intern (Asset Tracker)

May - 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.

PROJECTS

PokerBot - [Github Repo](#) - (Academic Full-stack Project)

Back-End Developer

Oct. 2025 - Present

- Engineered the backend architecture for a full-stack poker bot in Python, creating modular gameplay logic (betting, hand evaluation, round flow) and building data-logging pipelines that captured 1,000+ gameplay events for ML training.
- Collaborated with a frontend developer and an ML engineer using structured Git workflows (branches, PRs, merge reviews), improving integration efficiency and reducing merge conflicts by 40%+ while supporting continuous bot improvement.

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

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 across the SDSU community.

La Tribuna - [Front-end Github Repo](#) | [Back-end Github Repo](#) - (Personal Full-stack Project)

Nov. - Jan. 2023

- Engineered a full-stack blogging platform (React.js, Node.js/Express.js, MongoDB), designing 10+ RESTful APIs for authentication and full CRUD on posts/comments, tested across 15+ user accounts with fully modularized models, controllers, and routes.
- Implemented secure authentication with bcrypt, Passport.js, and JWT, validating 100% of user input through middleware and deploying the application on Render/Netlify, reducing code redundancy by 25% and enhancing maintainability.