# Luis Villalon

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## Education

**San Diego State University** — San Diego, CA
*Bachelor of Science in Computer Science, Minor in Mathematics* — *Expected May 2027*
- **Coursework:** Data Structures & Algorithms, Operating Systems, Machine Learning, Data Science, UNIX System Admin., Software Security, Data Privacy

## Experience

**Undergraduate Researcher** — Jan 2026 – May 2026
*SDSU AI4Business Lab* — *San Diego, CA*
- Built a deterministic Python agent that picks tools to study how that decision-making could be exploited
- Reviewed prompt-injection and data poisoning research with the team in weekly discussions
- Learned a three-layer trust-centered AI safety framework: psychological trust, technical safety, and security

**Full-Stack Intern** — Nov 2025 – Jan 2026
*Second Course (campus food-sharing app)* — *San Diego, CA*
- Improved a React Native and Firestore app used by 300+ students; helped ship it to the App Store
- Collaborated with the founders on app fixes, including login bugs and the news feed card
- Cleaned and restructured the codebase by removing unused files and making it more modular and readable

**Front-End Developer Intern** — Dec 2024 – Mar 2025
*Sports Excitement (youth sports social network)* — *Remote*
- Rebuilt login, sign-in, and sign-up pages from Figma as responsive front-end screens using CSS media queries
- Completed sprint tasks with a scrum master and about 10 cross-disciplinary teammates across UX, backend, and marketing

**Software Engineer Intern** — Jun 2024 – Aug 2024
*Ectron Corporation* — *San Diego, CA*
- Architected an asset-tracking prototype that maps job-site equipment for field workers
- Built the front end in React and Next.js; integrated Azure Maps and Azure SQL for 8 tracked assets
- Mentored two interns with no prior HTML or CSS experience as they built the Express.js backend

## Projects

**kanso** (personal project) | *Next.js, TypeScript, FastAPI, PostgreSQL, Supabase Auth* — Live App
- Digital clarity notebook bringing tasks, notes, habits, and mood into one place, with a Next.js front end, FastAPI + Postgres backend, and an AI learning-resource recommender; used by 15+ people
- Learning-resource recommender: an LLM plans topic, level, and queries; a pipeline searches DuckDuckGo, filters sponsored and paywalled results, checks dead links, scores credibility, and returns one video, article, and exercise

**ROSS** | *JavaScript, Node.js, SQLite, Clio API, BM25* — *1st Place, Swans Applied AI Hackathon 2026*
- Built the Clio integration and citation feature; 90-second cited brief, 1st of 60+ teams

**Agentic Abstraction for Chip Engineering (AACE)** | *LangGraph, FastAPI, AWS* — *Feb 2026 – May 2026*
- Mentored by NXP's Design & Automation Team; goal: speed up chip design by clarifying design semantics
- Contributed to a five-person team's multi-agent pipeline that turns SystemVerilog into diagrams

## Technical Skills

**Languages**: Python, TypeScript, JavaScript, Java, C++
**Frameworks & Libraries**: React, Next.js, Node.js, Express.js, FastAPI, Pydantic, LangGraph
**Applied AI**: RAG, Prompt Design, Model Context Protocol (MCP), AWS Bedrock
**Databases & Cloud**: PostgreSQL, MongoDB, Supabase, Firebase, AWS (S3, EC2), REST APIs
**Tools**: Git/GitHub, Claude Code, Linux/UNIX

## Certifications

- CodePath AI201 (Fall 2026): built RAG, MCP agent, fine-tuned classifier, and rate-limited API projects
- AI Fluency and Claude 101 (Anthropic, Sept 2026)
- MongoDB Learning Path (2023)
- freeCodeCamp Responsive Web Design and JavaScript Algorithms (2022)

## Leadership

**Outreach Chair** — Jan 2026 – Present
*ColorStack (SDSU Chapter)* — *San Diego, CA*
- Helped launch the chapter's website and Discord; plan industry workshops and speaker events