

Juan Pablo Davalos

davjuanpablo423@gmail.com | (209) 427-9621 | [linkedin.com/in/jpdavalos](https://www.linkedin.com/in/jpdavalos) | github.com/jpdavalos423 | jpdavalos.com

EDUCATION

University of California, San Diego

Bachelor of Science, Computer Science (GPA: 3.75) - Regent's Scholar

Expected June 2027

La Jolla, CA

RELEVANT COURSEWORK

Advanced Data Structures and Algorithms, Software Engineering, Systems Programming, Computer Operating Systems

EXPERIENCE

Incoming Software Engineering Intern

General Atomics Aeronautical Systems

Summer 2026

Poway, CA

Software Engineering Intern

LocalArena Tix

December 2025 - Present

Remote

- Built multi-account payout infrastructure in Django REST + PostgreSQL, enabling live rule-based revenue routing
- Engineered payout rules enforcing 100% allocation totals and compliance checks to prevent invalid allocations
- Implemented multi-invoice generation per sale, snapshotting allocations and locking records for financial integrity
- Developed ticket-editing workflows in Next.js with REST endpoints, ownership validation, and Render deployment

Software Developer

Triton Software Engineering

November 2025 – Present

La Jolla, CA

- Built a Next.js + TypeScript platform for a nonprofit client using REST APIs and PostgreSQL-backed services
- Implemented dynamic filtering, client-side state management, and error handling aligned with backend schemas
- Collaborated in a 14-person agile team using feature branching, code reviews, and GitHub Actions CI/CD

Software & Data Engineering Researcher

University of California, San Diego

September 2024 – August 2025

La Jolla, CA

- Engineered a Python Selenium web scraping pipeline processing 1,044 articulation agreements from 115 CCCs
- Developed a Python transfer pathway generator that validates prerequisites and produces term-by-term schedules
- Optimized data pipelines to detect credit loss, prerequisite bottlenecks, and articulation gaps, improving efficiency

Software Engineering Intern

KSDT Radio

October 2024 – June 2025

La Jolla, CA

- Rebuilt a legacy PHP/HTML website using React and Node.js, improving performance and maintainability
- Implemented responsive UI, multimedia streaming integration, and email workflows, increasing engagement 25%

PROJECTS

PokéPredict | TypeScript, AWS (Lambda, DynamoDB, API Gateway), Python

January 2026 – Present

- Developing a cloud-based analytics platform that predicts Pokémon card market trends using historical price data
- Built a serverless backend with AWS Lambda, DynamoDB, and API Gateway to store and query card data
- Designed REST APIs for querying card performance, portfolio analytics, and predicted price trajectories

PathLayer – Referral Graph Engine | TypeScript, Next.js, Python

March 2026 – Present

- Building a network analysis tool that finds optimal referral paths using LinkedIn connection graphs
- Implemented graph traversal algorithms to compute shortest paths through first- and second-degree connections
- Developed backend services modeling professional networks and ranking candidates by connection proximity

Transfer Pathway Planner | React, TypeScript, Python, Selenium

June 2025 – August 2025

- Built a full-stack web app generating customized transfer plans for CCC CS students using React and TypeScript
- Implemented backend scheduling algorithms to efficiently validate prerequisites and optimize course sequencing
- Developed a responsive UI for real-time course validation and seamless data integration with backend services

TECHNICAL SKILLS

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

Frameworks & Libraries: Django, React, Next.js, Node.js, Express, Selenium, JUnit

Databases & Tools: PostgreSQL, MongoDB, Git, Docker, GitHub Actions

Cloud & Infrastructure: AWS (Lambda, DynamoDB, API Gateway, CloudFormation), Supabase

LEADERSHIP

• **Hackathon Lead Organizer** — SanD Hacks 2026

• **CSE Tutor** — CSE 3 (Fluency in IT)

• **Founder** — Reverie (Band)

• **Grief Facilitator** — Jessica's House