

Sebastian Davalos

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TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, TypeScript

Frameworks/Tools: Next.js, React, Tailwind CSS, Supabase, Vercel, Git, GitHub, AWS Rekognition, S3

Data Science & AI: Scikit-learn, Pandas, NumPy, Matplotlib, OpenAI API, ML Pipelines, RAG

EDUCATION

Florida State University | *Tallahassee, FL*

Expected May 2027

Bachelor of Science in Computer Engineering

Florida International University | *Miami, FL*

July 2025

Associate of Arts (Dual Enrollment)

Relevant Coursework: Data Structures & Algorithms, Computer Data Analysis, Calculus I, Calculus II, Calculus III

RELEVANT EXPERIENCE

CompNeuroSociety Lab

February 2026 - May 2026

Florida State University | *Workshop Coordinator*

- Promoted from intern to Workshop Coordinator, leading training on open science, reproducible research, and computational workflows.
- Developed and delivered two workshops on research transparency, FAIR/CARE principles, GitHub collaboration, and reproducible coding.
- Mentored 20+ student attendees through onboarding, documentation habits, project organization, and broader club operations.

AI4ALL Ignite Program

(Remote) Florida International University | *Student Intern/Developer*

May 2025 - October 2025

- Completed a 13-week AI program focused on machine learning, responsible AI, and career readiness.
- Strengthened Python and machine learning skills through workshops, model evaluation, and team-based development.
- Presented project findings at the AI4ALL Student Symposium.

PROJECTS

SmartGallery | *Python, AWS Rekognition, S3, Git/GitHub*

January 2026 - April 2026

- Engineered a Python tool that analyzes S3-hosted images with AWS Rekognition and returns detected labels.
- Coordinated within a 40-person team environment using GitHub branches, pull requests, and shared development workflows.
- Streamlined testing by adding configurable CLI inputs and exporting raw JSON outputs for debugging and evaluation.

StudyStack AI | *Next.js, TypeScript, Supabase, OpenAI*

February 2026 - April 2026

- Built a full-stack AI study platform for PDF-grounded chat, flashcards, quizzes, and persistent study threads.
- Developed a retrieval pipeline using structured parsing, chunking, hybrid search, and source-grounded responses.
- Integrated Supabase authentication, secure storage, persistent chat state, and manual study-set creation.

The Actuary | *Python, Scikit-learn, Pandas*

May 2025 - October 2025

- Constructed an ML pipeline using Random Forest, K-means, and Isolation Forest to evaluate insurance risk patterns.
- Trained a Random Forest model that achieved 98.5% accuracy using applicant features including age, BMI, and smoking status.
- Applied clustering and anomaly detection to identify risk segments and flag approximately 5% of records for further review.

LEADERSHIP & SERVICE

CompNeuroSociety at FSU | *Co-president*

April 2026 - Present

- Co-lead planning, programming, and member engagement for a student organization centered on **computational neuroscience**.
- Coordinate workshops, project opportunities, and collaboration efforts that connect students with hands-on technical experience.
- Broaden outreach and participation by helping shape semester goals, events, and research-focused initiatives.

Association for Computing Machinery (ACM) at FSU | *Project Chair*

May 2026 - Present

- Selected to lead student software project development, supporting project planning, contributor onboarding, and team-based technical collaboration.
- Participating in summer project lead training by building a student organization-focused application to strengthen full-stack development skills.
- Training to guide members through Git/GitHub workflows, task delegation, technical communication, and collaborative software engineering.