

Nicolas Sanchez

Software Engineer — Full-Stack Developer
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TECHNICAL SKILLS

Languages: JavaScript (ES6+)/TypeScript, Python, Java, C/C++, SQL, HTML5/CSS3

Frameworks & Libraries: React, Next.js, Redux Toolkit, Node.js, Express, Flask, Django, Tailwind, Material UI

Cloud & Data: PostgreSQL, MySQL, MongoDB, Redis, AWS (EC2, S3, Lambda, CloudWatch), Docker, Kubernetes, REST/GraphQL APIs

Tooling & Practices: Git/GitHub, CI/CD pipelines, Jest, Pytest, Webpack/Vite, npm/yarn, Linux, Postman, unit/integration testing

PROFESSIONAL EXPERIENCE

Pinterest

Remote

Full-Stack Software Engineer Intern

May 2024 - August 2024

- Built a merchant-search workspace that unified onboarding data by pairing a React UI with Python microservices, replacing scattered spreadsheets with one searchable source
- Prototyped a natural language to SQL assistant (spaCy + internal schemas) so analysts could pull inventory snapshots without writing queries
- Partnered with PMs, design, and support to run the full lifecycle—story breakdown, code reviews, production deploys, and feature demos
- Helped the team gradually carve React micro frontends out of a legacy monolith, making release coordination far less brittle

Amazon

Seattle, WA

Frontend Software Engineer Intern

May 2023 - August 2023

- Delivered a Partner Portal analytics dashboard that ingests millions of daily events and surfaces health signals for business stakeholders
- Refactored React components, added lazy loading, and trimmed cold-start time enough that field teams stopped falling back to spreadsheets
- Exposed REST endpoints backed by AWS S3 + CloudWatch to stream metrics in near real time, reducing manual monitoring work for the ops crew
- Rolled out TypeScript typings and Jest tests that caught regressions earlier and gave the team predictable sprint commitments

TECHNICAL PROJECTS

KnowGap - Academic Analytics Platform: Led a 3-person team building a Canvas-integrated dashboard; ML risk scores highlight students who need advisor outreach. **Stack:** React, Flask, PostgreSQL, OAuth2, Docker, AWS

YouTube Content Intelligence: Built semantic search across long-form videos by combining transcript NLP, vector search, and caching for fast responses. **Stack:** React, Python, TensorFlow, Pinecone, YouTube API

ShopFlow - E-Commerce: Implemented a marketplace with live inventory sync, Stripe checkout, and operator analytics, plus load tests in k6. **Stack:** React, Redux, Node/Express, MongoDB, JWT, Stripe

High-Performance MIPS Simulator: Authored a cycle-accurate CPU simulator with profiling hooks to study pipeline hazards. **Stack:** C, Assembly

EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science, GPA: 3.32

Graduated August 2025

- **Core CS Fundamentals:** Data Structures & Algorithms, Software Engineering, Database Systems, Computer Networks, Operating Systems, Machine Learning, System Design
- **Academic Excellence:** President's Honor Roll (2022, 2023) — Strong foundation in scalable software architecture and distributed systems

ADDITIONAL EXPERIENCE

CyberPatriot XII State Champion: Captained a 4-person squad through incident-response drills and OS/network hardening challenges en route to the Florida title