Nicolas Sanchez

Software Engineer — Full-Stack Developer

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TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C++, SQL, HTML5, CSS3

Frontend Technologies: React.js, Redux Toolkit, Next.js, TypeScript, Tailwind CSS, Material-UI, Responsive Design, JavaScript ES6+

Backend Technologies: Node.js, Express.js, Python, Flask, Django, REST APIs, GraphQL, Microservices

Databases & Cloud: PostgreSQL, MySQL, MongoDB, Redis, AWS (EC2, S3, Lambda, CloudWatch), Docker, Kubernetes

Development Tools: Git, GitHub, CI/CD, Jest, Pytest, Webpack, npm/yarn, Linux/Unix, Postman, VS Code

PROFESSIONAL EXPERIENCE

Pinterest   Remote

Full-Stack Software Engineer Intern   *May 2024 - August 2024*

- Engineered scalable merchant search platform serving 200+ users with React.js and Python microservices, boosting workflow efficiency by 40% and reducing search latency by 2.5x
- Architected AI-powered chatbot with NLP to convert natural language to SQL queries, enabling 5x faster data access with 95% accuracy
- Led full-stack development lifecycle from requirements to production, collaborating cross-functionally in agile sprints
- Modernized legacy monolithic applications to React.js microservices, improving maintainability by 60% and deployment frequency by 3x

Amazon   Seattle, WA

Frontend Software Engineer Intern   *May 2023 - August 2023*

- Architected analytics platform processing 10M+ daily events with 99.9% uptime, serving business metrics to 1000+ Partner Portal users
- Optimized React.js components with Redux and code splitting, achieving 60% faster load times and 25% higher engagement
- Implemented scalable RESTful APIs with AWS services (CloudWatch, S3) for real-time visualization, reducing monitoring overhead by 40%
- Championed TypeScript and TDD practices, reducing production bugs by 30% and delivering sprints 2 weeks ahead of schedule

TECHNICAL PROJECTS

KnowGap - AI Academic Analytics Platform: Production web app serving 500+ students with Canvas LMS integration and ML predictive analytics. Deployed on AWS with 99% uptime. **Tech:** React.js, Python Flask, PostgreSQL, OAuth2, Docker, AWS

YouTube Content Intelligence Platform: Semantic search engine processing 1000+ videos with NLP transcript analysis and vector matching. 92% accuracy, sub-second response. **Tech:** React.js, Python, TensorFlow, Vector Search, YouTube API

ShopFlow - E-Commerce Platform: Full-stack marketplace with real-time inventory, Stripe payments, and analytics dashboard. Handles 100+ concurrent users. **Tech:** React.js, Redux, Node.js, Express.js, MongoDB, JWT, Stripe

High-Performance MIPS Simulator: Cycle-accurate processor simulation with 95% hardware specification accuracy and performance profiling. **Tech:** C, Assembly, Computer Architecture

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: Led team of 4 engineers to state championship in cybersecurity competition, demonstrating leadership in network security and system administration

Open Source Leadership: Active contributor to multiple GitHub projects with 1000+ commits, demonstrating collaborative development and code review expertise