

John Montgomery

Senior Full Stack Engineer, SaaS Platform Architect

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EXPERIENCE

Roo **Software Architect**

2019 - 2023

- Directed platform architecture and contributed to engineering leadership for a high-scale SaaS product, ensuring rapid feature delivery alongside long-term scalability, security, and maintainability.
- Designed and implemented **cloud-based architectures (AWS, Cloudflare, ALB)** to separate marketing and product web systems, enabling independent deployment cycles.
- Built **deployment automation** pipelines using GitHub Actions + Terraform for **zero-downtime frontend (React) and backend (Node.js, Python microservices)** Docker deployments.
- Developed backend microservices with **AWS Lambda, AWS Batch, and MySQL**, processing millions of data records for scheduling and payment operations.
- Created automated **test data refresh pipelines** with secure scrubbing, keeping dev/staging environments synchronized with production-scale datasets.

Healthcare Scheduling **Senior Full Stack Engineer**

2017 - 2018

- Sole full-stack developer for an early-stage startup building an office management and scheduling platform for medical practices.
- Designed and implemented backend and frontend features using **AWS, Node.js, PostgreSQL, Redis, React, Redux**.
- Developed core scheduling, user management, and reporting features, and optimized data queries for scalability.

CORE SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML/CSS

Frontend: React, Redux, Responsive UI/UX, Data Visualization

Backend: Node.js, Python (Flask), Express, REST APIs, Microservices Architecture

Databases: MySQL, MSSQL, PostgreSQL, Redis

Cloud & DevOps: AWS (Lambda, Batch, ALB, S3, EC2), Cloudflare, Docker, Terraform, CI/CD Pipelines

Data Handling: Large-scale datasets, Query Optimization, Secure Data Pipelines, Test Data Automation

Other: GIS familiarity, Data Security, Permissions Management, Agile/Scrum

Reverse Risk **Full Stack Engineer**

2012 - 2016

- Built with a small team a SaaS data analytics and reporting platform for car dealerships, leveraging AWS Elastic Beanstalk, Node.js, MSSQL, Redis.
- Optimized analytics pipelines for high-volume transactional data, contributing to product acquisition by Reynolds & Reynolds.

Scientific Learning **Lead Prototype Designer**

2008 - 2011

- Designed and coded fully functional game interactions for user testing, product demonstrations, and internal evaluation.
- Developed UI/UX for data reporting tools that visualized student performance metrics for educators, enabling more informed instructional decisions.
- Worked closely with educators, engineers, and product teams to align engaging visual design with instructional objectives.

ADDITIONAL EXPERIENCE

Oakland Unified School District **Temporary Teaching Assignment (Emergency Credential)**

2024 - 2025

- Designed and delivered engaging lessons across multiple subjects, integrating technology and AI tools to personalize learning and create custom instructional materials.
- Leveraged AI-driven content generation to adapt lesson plans for varied student proficiency levels, improving accessibility and engagement.
- Applied software engineering mindset to streamline grading, data tracking, and reporting using custom-built spreadsheets and automated workflows.

EDUCATION

Stanford University

BA Latin American History

University of Washington

BFA Printmaking/Design

CERTIFICATES

Udemy PMP Course Certificate

ADDITIONAL LANGUAGES

Spanish

COMMUNITY INVOLVEMENT

Youth Soccer Coach