

Desmond McLemore

Full-Stack Software Engineer

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Professional Summary

Full-Stack Software Engineer with 4 years of experience building scalable web applications and leading technical initiatives at high-growth companies. Expertise in React/Node.js ecosystems with a track record of designing systems that process 10K+ daily operations and serve 100K+ users. Proven ability to establish frontend architecture, optimize performance, and deliver measurable business impact.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL, HTML5, CSS3
Frontend: React, Next.js, GraphQL, Bootstrap
Backend: Node.js, Express, Flask, RESTful APIs, GraphQL APIs, Microservices
Databases: PostgreSQL, SQL, Schema Design
DevOps & Cloud: AWS, CI/CD, Docker, Cloud Infrastructure
Testing: Jest, Playwright, Unit & Integration Testing
Tools & Practices: Git, GitHub, Agile/Scrum, Code Reviews, Technical Documentation

Featured Projects

Synthetic Data Generation CLI Tool | *Python, OpenAI APIs, Click, YAML*

Link: dmclemore.dev/projects/data-generation-app

- Built production-ready CLI generating 50,000+ ML training records with smart duplicate detection
- Engineered batch processing with memory management and industry-specific data contexts

Interactive Sudoku Generator & Solver | *React, TypeScript, Constraint Satisfaction*

Link: dmclemore.dev/projects/sudoku-generator

- Implemented multiple solving algorithms (logical deduction, backtracking) with unique solution validation
- Built constraint satisfaction engine handling 27 simultaneous rule groups with real-time error detection

Personal Portfolio Website | *Next.js, React, Tailwind CSS, TypeScript*

Link: dmclemore.dev

- Built responsive portfolio featuring embedded project demos and dark/light theme switching
- Deployed with optimized performance and accessibility standards

Queue & Stack Data Structure Visualizer | *React, TypeScript, CSS Animations*

Link: dmclemore.dev/projects/queue-stack

- Created interactive educational tool demonstrating LIFO/FIFO operations with visual pancake metaphors
- Implemented real-time animations showing data flow and stack/queue state changes

Professional Experience

Senior Software Engineer | *Xometry (Remote)*

November 2021 - Present

- **Spam Detection Platform:** Designed and launched a spam detection system processing over 10,000 messages daily with 99.5% accuracy, including moderation tools and reporting workflows.
- **Frontend Architecture:** Led React architecture overhaul for the supplier discovery platform, introducing scalable component patterns that increased team velocity and improved maintainability.

- **Verification System:** Built full-stack company verification workflow using React, Node.js, and PostgreSQL; system now supports 1,000+ real-time company profiles and is used org-wide.
- **Team Collaboration:** Partnered with backend, product, and design teams to ship 3 major applications, while upholding >95% test coverage and comprehensive documentation standards.
- **Performance Optimization:** Boosted platform speed and reliability for 100,000+ users by tuning DB queries and optimizing component rendering.

Education

Software Engineering Career Track Certificate | *Springboard*

August 2020 - August 2021

- Completed 700+ hours of hands-on training in JavaScript, React, Node.js, PostgreSQL, and system design.
- Built and deployed multiple full-stack projects, including an e-commerce app with authentication, API integration, and CI/CD pipelines.

Computer Engineering & Computer Science | *Indiana University, Indianapolis*

August 2015 - January 2017

- Completed 45 credit hours in Computer Engineering and Computer Science
- Coursework in programming fundamentals, data structures, algorithms, and computer systems

Awards & Recognition

Founders Award Recipient | *Xometry*

Q2 2023

Honored for designing and championing scalable frontend architecture for the supplier discovery platform, leading to increased productivity and maintainability across the engineering org.