

# Adam Morelli

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## Senior Full-Stack Engineer

Full-stack software engineer with experience designing, building, and operating scalable web applications. Strong across frontend, backend, and infrastructure, with a focus on maintainable architectures, automated testing, and reliable CI/CD. Comfortable owning systems end-to-end in collaborative teams.

## Skills

**Languages & Frameworks:** JavaScript/TypeScript, PHP, Python, React, Laravel, Node.js

**Backend & Data:** REST, GraphQL, MySQL, relational & NoSQL databases

**Frontend:** React, Next.js, CSS/SASS, performance optimization, accessibility (WCAG)

**DevOps & Infra:** AWS, Docker, CI/CD, Git, monitoring, load testing (Grafana k6)

**Testing:** Jest, Playwright, Selenium, PHPUnit, TestCafe, TDD, visual regression testing

## Experience

### Tech Lead — 3C Institute, Durham, NC 2021 – Present

- Designed and implemented scalable full-stack solutions using React, Laravel, GraphQL, MySQL, automated testing, and AWS.
- Led development of the organization's flagship application, contributing to architecture, implementation planning, and long-term maintenance.
- Helped consolidate application services and infrastructure, reducing operational costs by nearly 50% in under one year.
- Built internal tools supporting research and development workflows, including a transcription service, resource platform, report builder, and time-tracking app.

### Web Application Developer — 3C Institute, Durham, NC 2019 – 2021

- Built responsive web applications with React and REST APIs backed by Laravel.
- Maintained and customized 20+ WordPress sites, improving analytics visibility and performance.
- Partnered with designers and product teams to translate requirements into user-focused applications.

## Education

**McMaster University** — Web Design & Development

**University of Toronto** — Commerce