

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: JavaScript/TypeScript, Laravel PHP, React, Next.js, Node.js, · REST & GraphQL APIs · MySQL, relational & NoSQL databases · AWS, Docker, Jenkins · Jest, Playwright, Selenium, PHPUnit · Accessibility (WCAG)

Experience

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

- Designed and implemented scalable production systems across frontend, backend, and infrastructure using React, Laravel, GraphQL, MySQL, and AWS.
- Contributed to system architecture and led development of the organization's flagship application from planning through ongoing iteration.
- Improved operational efficiency by consolidating infrastructure, reducing costs by nearly 50% in under one year.
- Built internal platforms and tools to support engineering and research workflows, including data processing, reporting, and automation tools.
- Collaborated with cross-functional teams and stakeholders to refine requirements, deliver features, and support production systems.

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

- Developed and maintained production web applications using React and Laravel.
- Supported multiple customer-facing and internal systems, contributing to feature development, performance improvements, and bug fixes.
- Worked closely with designers and product teams to translate requirements into functional software.

Education

McMaster University — Web Design & Development

University of Toronto — Commerce