

# Katie Dubois, Software Engineer

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## PROFESSIONAL SUMMARY

Software Engineer with experience in full-stack development, database management, and CMS administration, with a focus on accessibility compliance and site optimization. Proven success delivering responsive, user-focused applications through internships and personal projects, including scalable web platforms and real-time APIs integrations. Detail-oriented and analytical, with strengths in organization, research, debugging and problem solving. Recognized for adaptability to new technologies and environments and effective collaboration across teams. Actively seeking opportunities as a junior engineer to apply technical skills and creativity in building reliable digital solutions.

## SKILLS

<b>Languages:</b>	HTML, CSS, JavaScript, TypeScript, Python, PHP, Swift, SQL, SASS/SCSS, XML
<b>Frameworks:</b>	React, Angular, Vue.js, Node.js, Express, Next.js, Flask, Django, FastAPI, jQuery, Bootstrap, Tailwind CSS, Material UI
<b>Databases:</b>	MySQL, PostgreSQL, SQLite, Azure SQL, Microsoft SQL Server, Oracle, MongoDB
<b>Tools &amp; Design:</b>	Git, GitHub, Jira, Microsoft 365, Visual Studio, Visual Studio Code, IntelliJ IDEA, Xcode, Postman, REST APIs, API Integration, GraphQL, WordPress, Drupal, Sitefinity, Google Analytics, SEO, SEM, Zendesk, Welcome, Figma, Adobe Creative Cloud
<b>Cloud &amp; DevOps:</b>	Microsoft Azure, Amazon Web Services (AWS), Google Cloud, Docker, CI/CD
<b>Accessibility:</b>	WCAG 2.0/2.1, AODA, WAI-ARIA, SiteImprove, Google Lighthouse, Selenium, Screen readers (NVDA, VoiceOver)

## WORK EXPERIENCE

<b>McMaster University</b>	<b>Hamilton, ON</b>
Computer Services Unit – Web Systems Analyst Intern	Mar 2022 – Sept 2022
▪ Organized and migrated over 15 department websites from Sitefinity to WordPress, ensuring complete content transfer and functionality, reducing deployment errors by 30% through improved migration processes to boost site reliability	
▪ Implemented WCAG 2.0 and AODA accessibility guidelines, achieving a 100% improvement in site accessibility compliance	
▪ Audited and remediated site content for accessibility, optimizing HTML structure, ARIA roles, and screen reader compatibility	
▪ Conducted website performance using SiteImprove and manual testing, improving both usability scores and page load speed by 25%	
▪ Delivered weekly progress reports during team meetings, aligning deliverables with project milestones and accessibility requirements	
<b>Mohawk College</b>	<b>Hamilton, ON</b>
Marketing and Creative Services – Front-End Developer Intern	Sept 2021 – Dec 2021
▪ Developed and tested accessible site features in Drupal and WordPress platforms, in accordance with WCAG 2.0 and AODA standards	
▪ Managed and updated CMS content across Drupal and WordPress platforms, ensuring accurate delivery within established deadlines and maintaining brand consistency	
▪ Resolved over 20 content and technical requests weekly through Zendesk and Welcome ticketing systems, achieving a 99% completion rate	
▪ Conducted website content with SiteImprove to identify and resolve accessibility and site errors, improving overall site accessibility and compliance	
▪ Collaborated extensively with internal marketing team and external clients to deliver accurate, brand-compliant content on schedule	

## PROJECTS

<b>TravelPlanner</b>   <a href="https://github.com/kndubois/travelplanner">github.com/kndubois/travelplanner</a>	Feb 2025 – Apr 2025
▪ Built a full-stack MVC web application in Node.js, Express, SQLite, Mustache and Bootstrap using Visual Studio Code	
▪ Designed trip scheduling, filtering, and validation features with persistent data storage in SQLite to improve itinerary management	
▪ Implemented responsive UI layouts with Bootstrap and RESTful routes with Express, ensuring usability and performance across devices	
▪ Applied Git for version control and GitHub for clear documentation, maintaining commit history and collaboration	
<b>FinTrack</b>   <a href="https://github.com/kndubois/fintrack">github.com/kndubois/fintrack</a>	Sept 2024 – Nov 2024
▪ Built Python command-line budget management tool with Azure SQL storage	
▪ Implemented a real-time currency conversion feature via an external API, enabling up-to-date financial insights for end users	
▪ Designed modules for budgeting, savings goals, financial reports, and user notifications, using object-oriented principles and design patterns	
▪ Optimized database queries and program flow, reducing redundancy and improving overall performance and tracking reliability	

## EDUCATION

<b>McMaster University</b>	<b>Hamilton, ON</b>
Bachelor of Technology in Software Engineering	Jun 2025