

# 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

**Languages:** HTML, CSS, JavaScript, TypeScript, Python, PHP, Swift, SQL, SASS/SCSS, XML  
**Frameworks:** React, Angular, Vue.js, Node.js, Express, Next.js, Flask, Django, FastAPI, jQuery, Bootstrap, Tailwind CSS, Material UI  
**Databases:** MySQL, PostgreSQL, SQLite, Azure SQL, Microsoft SQL Server, Oracle, MongoDB  
**Tools & Design:** 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  
**Cloud & DevOps:** Microsoft Azure, Amazon Web Services (AWS), Google Cloud, Docker, CI/CD  
**Accessibility:** WCAG 2.0/2.1, AODA, WAI-ARIA, SiteImprove, Google Lighthouse, Selenium, Screen readers (NVDA, VoiceOver)

## WORK EXPERIENCE

### McMaster University

Hamilton, ON

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

### Mohawk College

Hamilton, ON

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

**TravelPlanner** | github.com/kndubois/travelplanner

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

**FinTrack** | github.com/kndubois/fintrack

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

### McMaster University

Hamilton, ON

Bachelor of Technology in Software Engineering

Jun 2025