

Robyn McCallum

Senior Software Developer

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PROFESSIONAL SUMMARY

Senior software developer with nearly 20 years of hands-on development experience across web, desktop, and industrial systems. Proven product owner: independently managed and delivered a production Next.js application from architecture through deployment in an industrial robotics environment. Comfortable across the entire stack, from modern React/Next.js and Vue frontends to C++ and C# backend systems, PostgreSQL, and MS SQL Server, with a strong eye for UX and accessible, standards-based interfaces (WCAG).

TECHNICAL SKILLS

Frontend: JavaScript / TypeScript, React, Next.js (App Router), Vue, HTML5, CSS3, Tailwind CSS, jQuery, Bootstrap, Material Design / MUI, responsive design, accessibility (WCAG)

Backend: Node.js, C++, C#, PHP, Python, Ruby, Java, Kotlin, REST APIs, Kafka

Data: PostgreSQL, Microsoft SQL Server, MySQL, SQLite

Cloud & DevOps: AWS, Azure, CI/CD pipelines, GitLab, Git, Vercel

Platforms & Tools: Windows, Ubuntu, macOS, Figma, Slack, Teams, agile development

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer, 4AG Robotics

September 2024 – June 2026

- Owned and managed the Farm App (Farm UI), the company's core web product for monitoring and managing agricultural robotics operations, translating on-site operator needs into intuitive interfaces for demanding industrial environments.
- Architected and built the application end-to-end using Next.js and PostgreSQL, acting as the primary developer responsible for the product's design, implementation, and roadmap.
- Developed and integrated multiple C++ backend components, bridging the web application with robotics systems and real-time operational data.
- Drove release planning, deployment management, kanban board management, and task prioritization, and contributed to product direction in partnership with the Director of Software.
- Mentored team members and managed co-op students, providing code review, technical guidance, and onboarding support.
- Contributed to cross-functional design meetings, shaping solutions implemented across the Farm UI, robot software, and controls software.

Software Developer, USNR

December 2021 – September 2024

- Developed and maintained web-based applications for the sawmill industry using Vue, C#, and MS SQL Server.
- Modernized and extended C++ legacy systems, ensuring reliability of mission-critical industrial software.
- Worked across the full stack, from database design in MS SQL Server through backend services to Vue-based frontends.
- Collaborated with domain experts to translate complex mill-floor processes into maintainable software.

Freelance Web Developer & Frontend Designer

2006 – 2021

- Designed and built websites for small businesses and individual clients, handling the full lifecycle from requirements and design through development and ongoing support, sustained entirely through referrals.
- Self-taught in HTML, CSS, and JavaScript beginning in 2006; continuously evolved with the platform through 15 years of web standards, browsers, and design trends.

EDUCATION & AWARDS

Computer Information Technology Diploma, Lethbridge College

Graduated December 2021

- Provincial Programming Award, FIRST LEGO League (FLL): four consecutive years (2004-2007), programming autonomous robots in RobotC.