

# BRANDON CROWTHER

## SENIOR SOFTWARE DEVELOPER

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Senior Full-Stack Software Developer with 6+ years of experience architecting and scaling multi-platform applications on AWS. Skilled across diverse languages and frameworks, with expertise in DevOps, infrastructure-as-code, and cloud-native architecture. Proven track record modernizing legacy systems, optimizing performance, and delivering solutions that serve hundreds of thousands of users across government, healthcare, and education sectors.

### SKILLS

- **Frontend:** JavaScript, React, HTML, CSS, Cypress, Jest
- **Backend:** Node.js, PHP, Java, MySQL, PostgreSQL, Spring Boot, Yii
- **Cloud/DevOps:** AWS, Terraform, Kubernetes, Git, Docker, Continuous Integration
- **Project:** Project Scoping, Technical Architecture, Technical Writing, Stakeholder Communication, RFP Support, Work Estimation, Agile Methodology

### CAREER HIGHLIGHTS

- Designed and deployed a **high-availability AWS application** serving **300,000 - 500,000** monthly users with **99.9% uptime**.
- Directed the modernization of a legacy **React** application, **cutting the codebase by 50%** and **boosting performance by 20x** with zero loss in function, resulting in faster load times and improved user experience for tens of thousands of users.
- Developed **AI solutions** including a conversational proof-of-concept chatbot for sales demos and a neural network-based data de-duplication tool that automated hundreds of staff hours annually
- Created a **distributed, cloud-native load testing** tool that enabled enterprise-scale performance validation.

### EDUCATION

#### **Bachelor of Computer Science | University of New Brunswick**

*Fredericton, New Brunswick (2013 - 2018)*

- Student Union Representative, Faculty of Computer Science
- 2x NSERC Undergraduate Research Award Recipient
- 2x Undergraduate Peer Mentor

## WORK HISTORY

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### Healwell AI (acquired: VeroSource Solutions) | Senior Software Developer *Fredericton, New Brunswick (2021 - Present)*

Lead developer and technical lead across multiple high-profile government and healthcare platforms. Notable projects at the company include:

- **[Social Supports NB](#)**
  - Led the progressive modernization of a province-wide portal connecting residents with social support programs.
  - Incrementally rebuilt core components in **React** with a **Headless Drupal (JSON:API)** backend, deployed on **AWS EC2** with **Docker**.
  - Today, the platform helps **20,000+ monthly users** access government support services more reliably.
- **[Saskatchewan Health Authority](#)**
  - Directed the complete rehosting and re-architecture of Saskatchewan's main public healthcare website and employee intranet into a **cloud-native, high availability** application using **Terraform, AWS ECS, CloudFront, RDS, and Redis**.
  - Achieved **99.9% uptime** while serving **300,000 – 500,000 monthly users**.
- **[FMNC Anywhere](#)**
  - Stepped in post-launch to lead stabilization and enhancement of a mobile livestreaming application for funeral homes, ensuring reliability and privacy for families attending services remotely on Android and iOS.

### The Learning Bar | Software Developer *Fredericton, New Brunswick - 2018 - 2021*

- Worked as a full stack developer on a variety of educational testing and survey software products written in **Java, PHP, MySQL**, and hosted on **AWS**.
- Designed, trained, and implemented a **specialized neural network** to detect duplicate data entry from clients, automating multiple weeks of annual repetitive data cleanup.
- Developed a cloud-native load testing tool capable of performing **distributed load tests** using **AWS Fargate**, enabling large-scale performance tests.