

# Magnus Reeves

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## EDUCATION

**Western University**, London, ON

2018 - 2023

*Bachelor of Engineering Science, Software Engineering (BESc)*

## WORK EXPERIENCE

**Manulife Insurance**, Toronto, ON

May 2023 - Present

*Full Stack Software Engineer*

- Built and scaled secure web applications using **Typescript**, **React**, **Node.js**, and **SQL**. Enabling 4,000+ insurance advisors to manage customer policy information and process over 50 million dollars in payments.
- Improved React performance by 60% through implementing Remix's server side rendering framework.
- Architected a centralized backend hub with a JSON rules engine, streamlining processing for key operations and reducing integration complexity.
- Provisioned infrastructure on Azure using **Terraform**, deploying AKS clusters, load balancers and Function Apps.
- Enhanced security hardening by configuring Azure VNets to restrict network access and integrating Azure AD SSO for authentication, enforcing corporate web-security standards.
- Spearheaded the integration of **Agentic AI** prompting to automate business-rule execution, reducing manual coding and accelerating development workflows by 80%.
- Created an intelligent document processor using Python and OpenAI for receiving policy change forms from customers, replacing manual advisor form processing and improving business operations.

**Console One (startup)**, Toronto, ON

May 2022 - August 2022

*Frontend Software Developer*

- Built a browser-based IDE to write and deploy React apps on AWS lambda and s3, enabling faster website deployment.
- Enabled seamless code editing, version control, and deployments by writing stylish web components in React and integrating them with backend API's using hooks. Also wrote frontend unit tests using Jest and e2e integration tests with cypress.
- Scaled from 0 to 100 users and worked alongside clients to receive feedback and improve application quality.

## PROJECTS

**Cloud Canvas**

August 2024 - Present

- Accelerated AWS infrastructure provisioning by building a PaaS with TypeScript, React, and Remix on AWS Lambda, S3, and CloudFront, offering visual diagram-based deployment.
- Automated resource deployment by engineering a JSON-schema processing algorithm, reducing manual configuration steps.
- Secured early stakeholder buy-in by presenting platform design to non-technical audiences, facilitating cross-functional alignment.

**Muskoka GPS**

August 2024 – Present

- Led the end-to-end development of a GPS navigation system for Ontario boaters, applying Dijkstra's algorithm to optimize routing and deliver real-time tracking, allowing boaters to navigate successfully
- Organized and led user testing with 20 boaters to identify problems and pain points, driving 40% increase in feature release productivity leading to 20% decrease in navigation time and directly shaped the app's user experience.
- Designed and implemented the full-stack architecture using React Native, Express.js, and MongoDB, deploying system on self-managed server to reduce cost and improve latency.

**KeyVault**

January 2022 - Present

- Improved developer efficiency by centralizing environment-secret management in a web portal and CLI using typed configuration files, reducing configuration errors.
- Enhanced security by integrating role-based access controls and secure key-retrieval mechanisms, safeguarding sensitive environment secrets.

## ADDITIONAL SKILLS

**Languages:** Typescript, JavaScript, Go, Python, Java, Kotlin, C++, Rust, Zig, C, Jest, Vitest

**Technologies:** Jira, AWS, GCP, Azure, React, React Native, Svelte, NextJS, Remix, Microsoft SQL, Redis, Docker, Jenkins