Magnus Reeves

416-414-2028 rreeves8@uwo.ca

https://linkedin.com/in/magnus-reeves https://github.com/rreeves8 https://magnusreeves.ca

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 internal web applications using **Typescript**, **React**, **Remix, Node.js**, and **SQL**, enabling 4,000+ insurance advisors to track payment exceptions and policy changes daily.
- Improved frontend performance by 60% by integrating Remix and optimizing React UIs for scalability and maintainability
- 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%.
- Orchestrated production deployments via CI/CD pipelines in Jenkins, validating lower environment stability and documenting processes, contributing to consistently successful application releases.

Console One (startup), Toronto, ON   May 2022 - August 2022

Frontend Software Developer

- Reduced website deployment time by 50% by building a JavaScript/HTML front-end application to compose and deploy AWS sites, enabling faster go-to-market.
- Improved code modularity and reuse by architecting an event-driven component framework in vanilla JavaScript and HTML, streamlining development.
- Enabled seamless version control and deployment by implementing RESTful API integrations for IDE-based front-end code, enhancing user workflows.

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