Magnus Reeves

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EDUCATION

Western University   London, ON
Bachelor of Engineering Science, Software Engineering (BESc)   *September 2018 – May 2023*

WORK EXPERIENCE

Manulife John Hancock – *Canada's largest insurance company*   Toronto, ON
Full Stack Software Engineer   *May 2023 - Present*

- Designed and delivered 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 page loading performance by 60% through implementing React Router's server-side rendering framework.
- Configured application security using **Azure VNets** to restrict network access and implemented **MSAL** with **cookie-based** authentication, enforcing corporate **web security** standards.
- Architected a centralized backend hub with a JSON rules engine, streamlining processing and reducing integration complexity across 15 business operations, handling over 20,000 requests daily.
- Provisioned infrastructure on Azure using **Terraform**, deploying **AKS clusters**, **load balancers** and **Function Apps**.
- 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** to process customer policy change forms, replacing manual advisor workflows and improving operational efficiency.

Console One – *Startup*   Toronto, ON
Front End Software Engineer   *May 2022 – August 2022*

- Built a browser IDE to write and deploy web pages on **AWS Lambda** and **S3**, enabling faster website deployment.
- Enabled seamless code editing, version control, and deployments by writing stylish web components and integrating them with backend APIs using **React hooks** and **Reducers** for client-side state management.
- 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

Architect – *https://arccloud.app*

- Founded and built an **AI-powered SaaS** platform that enables users to generate **Terraform** and **GitOps** configurations through a visual, diagram-based composer, currently serving 15 active users and growing.
- Developed the web application using **React Router** and implemented the diagram composer using **React Flow**.
- Implemented **loader** and **action** functions invoking **DynamoDB** to manage user projects and diagrams, integrated **Firebase** for user authentication, and built a deployment system leveraging **GitHub** (**Octokit**) and the **AWS SDK**.
- Maintain a comprehensive **Terraform** module library, supporting deployments for multiple **JavaScript** frameworks.
- Authored a **Terraform** provider in **Go** to manage the provisioning and teardown of **AWS organization accounts**.

KeyVault

- Improved developer efficiency by centralizing **environment-secret** management in a web portal and CLI using typed **configuration files**, reducing configuration errors and secret key exposure.
- Developed a library for fetching secret values during cloud function startup using **role-based access controls**.

ADDITIONAL SKILLS

Technical

- Languages: TypeScript, JavaScript, Go, Python, Java, Kotlin, C++, Rust, C, Terraform
- Technologies and Concepts: Jira, AWS, GCP, Azure, Domain-Driven Design, Object-Oriented Programing

Non-Technical

- Led daily Scrum and weekly developer meetings to plan work items, prioritize new tasks, and address technical debt.
- Demonstrated strong organizational and collaboration skills, ensuring smooth knowledge transfers and team efficiency through detailed pull request reviews, updated Confluence documentation, and CI/CD management.