

Owen Allen

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WORK EXPERIENCE

MindBridge

Ottawa, Ontario

QA and Automation Developer

February 2024 - Present

- Led development of a RAG-based test recommender system integrated with GitHub Actions, enabling developers to identify the most effective tests to run against new pull requests
- Created a scalable data assertion framework with SQL, DuckDB, and Parquet, enabling growth from thousands to billions of validations and improving reliability against large-scale datasets
- Acted as QA Lead and primary automation implementer for major feature areas (e.g., Webhooks), collaborating with developers and product managers to deliver high-quality releases on schedule
- Developed integrations with Databricks to demonstrate effective use of the MindBridge API, providing developers with clear examples and accelerating adoption ([GitHub notebooks](#)) and supporting the strategic partnership with Databricks
- Leveraged Technologies: TypeScript, Cucumber, Python, pytest, Git, Databricks

Bank of Montreal

Toronto, Ontario

Software Developer

May 2022 - Aug 2022

- Developed a Managed File Transfer web application that allows users to schedule file transfers, add server locations, and configure authentication parameters
- Collaborated with stakeholders and engineering teams to prioritize features and grasp user-driven project requirements
- Created a login page integrated with Microsoft Active Directory to enhance security for the application
- Designed and implemented REST API routes for multiple applications to enable backend data access
- Hosted applications on Linux servers and used git to manage version control with a team
- Leveraged Technologies: TypeScript, Next.js, Tailwind CSS, MongoDB, Linux, Git

Ericsson Canada

Ottawa, Ontario

Automation Scripting Co-op

Sept 2020- Aug 2021

- Created Python scripts to migrate over 10,000 pages of documentation to Confluence, consolidating the company's knowledge base
- Developed Bash and Python scripts integrated with Ericsson's MoSHELL system, enabling engineers to efficiently verify spectrum sharing node configurations, saving hundreds of engineering hours
- Created an automated pipeline to connect Outlook, SharePoint, Power Automate and Azure to support automated tasks like ticket updates and notifying stakeholders with vital information
- Leveraged Technologies: Python, Azure Functions, Azure Blob Storage, Power Automate, Bash

Carleton University

Ottawa, Ontario

Teaching Assistant

Jan 2020 - Apr 2020

- Instructed students in fundamental computer science concepts in Python, tailoring explanations to individuals with varying levels of prior knowledge, including those with zero computer science experience
- Proven experience debugging programs and effectively communicating the source of issues with students, fostering a collaborative learning environment

EDUCATION

Carleton University

Ottawa, Ontario

Bachelor of Computer Science (Honours)

Sept 2018 - Apr 2023

- 11.06/12 in major GPA
- Coursework includes Design and Analysis of Algorithms, Database Design, Web Applications, Object-Oriented Software Engineering, Applied Cryptography, Computer Vision, and Social Network Theory
- Minor in Philosophy

PROJECTS

Clucker (A social media app)

- Developed a social media web app where people can share short messages, called clucks, with their friends
- Implemented server-side rendering for swift page loads, coupled with client-side scripts for user interaction and necessary data fetching
- Designed a retro-inspired user interface using Tailwind CSS and shadcn/ui components
- Implemented NextAuth.js and JWTs for security and to allow users to sign in with Google
- Hosted the backend on AWS Elastic Beanstalk