Owen Allen

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WORK EXPERIENCE

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
- Gained experience hosting applications on Linux servers and managing version control using Git
- **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
- Extensive 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   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 Django backend on AWS Elastic Beanstalk
- The app is live at clucker.vercel.app and the repo can be found on my GitHub at github.com/Owen-Allen/clucker
- **Leveraged Technologies:** TypeScript, Next.JS, Django, Tailwind CSS, shadcn/ui, AWS Elastic Beanstalk

SKILLS

JavaScript, TypeScript, React.js, Next.js, Node.js, Python, Django, Tailwind CSS, HTML5, CSS, SQL, NoSQL, Linux, REST APIs, Azure Functions, Blob Storage, S3, AWS Lambda, Git