

Alvin Mozo

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Technical Skills and Knowledge

- **Frameworks:** Azure, Data Bricks, Data Factory, SQL server, Django, React, Nextjs, Agility CMS, Gatsby
- **Languages:** Python, JavaScript, Java, C, C++, HTML/CSS, R

Professional Experience

Software Developer (Intern)

Jun. 2022 - Sep. 2022

CompanyX, Toronto ON

- Created a **React Native** budgeting app with **Spring** boot backend hosted with **Azure**
- Worked in a multi-disciplinary team that leveraged scrum methodologies

Scientific Data Analyst

Jan. 2022 - Jun. 2022

Environmental Development Canada, Toronto ON

- Contributed to the evaluation and development of the Canadian Land Surface Scheme including Biogeochemical Cycles (CLASSIC) and model. Identified inefficient code which when correct resulted in a **45.8%** decrease in runtime
- Transformed, mosaiced, and filtered scientific data from raw form to specification
- Used **GDALs Python API** in conjunction with command line tools
- Handled geographical mapping systems such as WGS84 and Sinusoidal Title Grid

Distributed Back End Server (with AWS and Java)

Jan. 2022 - Aug. 2022

CompanyY, Vancouver, British Columbia

- Created a multithreaded REST API tomcat server using Java and deployed it on a Docker container running on an AWS EC2 instance. The scaling features were managed by a load balancer and an auto-scaler
- Developed multiple microservices that received API requests from RabbitMQ and recorded them on both a MongoDB and MySQL database

Integration Developer

May. 2021 - Dec. 2022

Conrad Property Development, Toronto ON

- Created data pipelines in **Azure's DataFactory** using **ARM** code; pipeline leveraged **Data Bricks**, **Blob storage**, REST API calls, and SQL store procedures
- Optimized cloud resources for a total savings of **\$30,000 annually**
- Re-created SQL tables in 3NF and added compatibility with new data schema
- Pioneered web stack of **Next.js**, **Agility CMS**, and **Netlify**; created unionparkto.com
- Created **Power BI** app to showcase pipeline health and drill down on errors

Projects

GenAI Flight - AI Project

2019

- Developed a 2D plane flight simulator in **Java** in which planes are controlled by a **neural network** that is genetically trained

Education

Master of Professional Studies - Analytics

Jun. 2020

Northeastern University in Toronto, Toronto, Ontario

- Awarded Alumni Scholarship; Top Grade (Computer Organization)
- NU Toronto Analytics Lead

2018 - 2021