

RELATED EMPLOYMENT

Comtech Telecommunications

Cloud Engineer (CO-OP)

Gatineau, QC, Canada | May 2024 - Aug 2024

- Modularized **IAC** with **Terraform** and **Terragrunt** to streamline environment provisioning and reduce deployment time by **25%**.
- Converted monolithic service into **serverless microservices** using **AWS Lambda and Python**, improving system flexibility and reducing operational costs by **20%**.
- Engineered **auto-scaling** for services via **AWS Fargate, ECS, and ECR**, enhancing system resilience and enabling on-demand scalability, which improved service uptime by **30%**.
- Implemented security best practices by utilizing **CIS-compliant EC2** images and configured **SSL certificates** and **DNS** management with **Route 53 and ACM**, elevating the infrastructure's security posture.

Zafin

Software Developer (CO-OP)

Toronto, ON, Canada | May 2023 - Sep 2023

- Developed and deployed an **NLP** platform leveraging **OpenAI** and **Hugging Face LLMs** on **Azure Container Apps**, enabling natural language interactions with Zafin **REST APIs** and increasing user feature adoption.
- Implemented microservices using **Spring Boot, Flask, Azure Blob, and Cosmo DB** to ensure scalability and **99%** uptime.
- Organized weekly **Agile rituals**, which improved the team's delivery efficiency and sprint completion rate by **20%**.

Cision PR Newswire

Full Stack Developer (CO-OP)

Ottawa, ON, Canada | Sep 2022 - Dec 2022

- Migrated on-premise servers to **Google Cloud Platform**, achieving **99%** uptime, improving scalability and global reliability.
- Developed and deployed new features using **ASP.NET** for a platform serving **thousands of users**, increasing user satisfaction.
- Addressed application defects and reduced technical debt, decreasing system errors by **10%** and improving performance.
- Demonstrated **leadership** by **onboarding new CO-OP** members, ensuring smooth integration and knowledge transfer.

Cision PR Newswire

Backend Software Developer (CO-OP)

Ottawa, ON, Canada | Jan 2022 - May 2022

- Developed **microservices** for an **ingestion and enrichment pipeline** using **Java, JavaScript, Spring, and Kafka**, improving data processing efficiency by **10%**.
 - Produced internal tools for deploying and testing **microservices** in an **asynchronous environment**, utilizing **Cucumber** and **CI/CD** workflows and **Java** reduced deployment errors by **15%** and increased testing efficiency.
 - **Dockerized** microservices and deployed them in **Kubernetes**, optimizing resource usage and enhancing **scalability**.
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PERSONAL PROJECTS

Capstone Business Communication Software

Jan 2024 - Dec 2024

React, TypeScript, Spring Boot, Java, Microservices, Twilio, Azure, Postgres, Mongo DB

- Led a team to develop a custom BCS, delivering a responsive **React/TS** front-end deployed via **Azure Static Web App**.
- Created a scalable Spring Boot **microservices** backend deployed to **Azure Container Services** using **CI/CD**.
- Integrated **Azure Active Directory** for secure authentication and **Twilio** for SMS/MMS messaging, resulting in **99% uptime**.

Web Scraping Project: Nolis

Sep 2022 - Jan 2023

Java, Spring, Mongo DB, Postgres, JWT, JSoup, Redis, Kafka, API, Maven

- Architected and implemented **client-server** distributed architecture and **MVC design patterns** using **Java** and **Spring**.
 - Integrated **Redis** for caching, **Kafka** for event-driven architecture, and **API Gateways** for high availability and fault tolerance.
 - Implemented **JWT authentication** and **authorization** to protect **service layers**, adhering to **clean architecture** principles.
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EDUCATION

University of Ottawa

Sep 2020 - Dec 2024

Bachelor of Applied Science Software Engineering (CO-OP) 2024

Relevant Coursework: Software Architecture, Systems Design, Databases, Data Structures & Algorithms, Engineering Requirements

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, C#, C++, Kotlin, HTML, CSS, SQL, NoSQL, Terraform, Terragrunt
- **Technologies:** Maven, Gradle, Docker, Kubernetes, CircleCi, Postgres, MySQL, Firebase, Mongo, Redis, Kafka, Cucumber
- **Frameworks:** Spring, Flask, Next.js, Angular, Bootstrap, React, React Native, .NET, Android Studio, Unity, DBT
- **Development Tools:** Azure, Google Cloud, AWS, VSCode, IntelliJ, Visual Studio, Jira, Confluence, GitHub, BitBucket