

## RELATED EMPLOYMENT

### Comtech Telecommunications

CO-OP Cloud Engineer

Gatineau, ON, Canada | May 2024 - Aug 2024

- Modularized the existing infrastructure as code to streamline adding new environments, successfully **deploying a QA** environment using **Terraform** and **Terragrunt**, which **reduced deployment** time by **25%**.
- 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%**.
- Converted monolithic service into **serverless microservices** using **AWS Lambda and Python**, improving system flexibility and reducing operational costs by **20%**.
- 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

CO-OP Software Developer

Toronto, ON, Canada | May 2023 - Sep 2023

- Led the development of an NLP platform leveraging **OpenAI, Hugging Face** and LLMs to enhance user engagement.
- Deployed a natural language interface on **Azure Container App** to bridge the gap between Zafin **REST APIs** and clients.
- 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

CO-OP Full Stack Developer

Ottawa, ON, Canada | Sep 2022 - Dec 2022

- Successfully migrated servers to **Google Cloud Platform**, enhancing scalability and reliability, resulting in a **99% uptime**.
- 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.

CO-OP Backend Software Developer

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 Project: CRM System

Jan 2024 - Present

*React, Typescript, Axios, Material UI, Spring Boot, Microservices, Twilio, Azure, Terraform*

- Collaborated with a team of 5 to design and develop a **CRM** tailored for a client, incorporating their specific requirements.
- Built a responsive frontend using **React, Axios**, and **Material UI** and a scalable backend using **Spring Boot** and **microservices**.
- Integrated **Twilio** for **SMS** and **MMS** capabilities, enabling scheduling, bulk sending, and **real-time** message tracking.

### Software as a service: Nolis

Sep 2022 - Jan 2023

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

- Architecture 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

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## 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