

Hien Tu

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HR Department

Company Name
Company Address
City, State

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Dear Hiring Team,

Innovation is a crucial quality that a company requires to accelerate in the continuously developing world. In addition to my interest in innovation and in-class knowledge, I have obtained real-world experience through my co-op program. Given the mentioned reasons, I am writing to express my interest in the **12-month** position of **Data Scientist Co-op** at **AMD**, posted on the McMaster Engineering Co-op and Career Services website.

I am currently enrolled in my **final year** of the **Computer Science Co-op** program and have maintained a **CGPA** of **4/4** throughout my academic career. Throughout the courses, I have learned multiple programming languages including **Python**, **Java**, **Haskell** and received an introduction to **web development** using **HTML**, **CSS**, **JS** and **Django**. Furthermore, through several labs and assignments, I have developed my **code testing** and **debugging** skills with **Pytest** and **JUnit**. Moreover, I have enhanced my **clean-code writing** and **documentation** skills using **Pylint** and **Doxygen**.

In addition to my education, I have gained real-world experience through undertaking various responsibilities in the **16-month co-op** program with **Sanofi Global Data and AI** team as a **Software Engineer Intern**. During my co-op, I have extensively broadened my software development and design thinking skills by developing and maintaining the company's internal platform. More specifically, I developed and maintained an internal platform API using **FastAPI**, a high-performance **RESTful API framework**; **Pydantic** and **SQLModel**. Furthermore, I was able to actively learn and apply latest **cloud-native** technologies including a wide range of services in **Amazon Web Services (AWS)** such as EC2, EBS, EKS, ECR, S3, RDS, Route53; containerization platform such as **Docker** and **Kubernetes**. Moreover, I was exposed to **DevOps** practices by maintaining and improving **CI/CD pipeline** with **GitHub Actions**, **ArgoCD**, **Helm**, **Terraform** and shell scripting (**Bash**) following **GitOps** approach.

During my co-op experience, I have also gained and advanced invaluable soft skills. For instance, as part of both the customer support and development teams of a **global** company, I have enhanced my **communication** and **collaboration** and **time management** skills by replying to approximately **2000** emails from users, in a team of three customer support members, and work with other developers in different time zones, following **Agile** model. Furthermore, I have exhibited **documentation** skill by creating training guides for new users and developers, documenting new and existing features as well as updating work progress on different tasks through **Jira** tickets.

Aside from academic and work experience, I have improved and gained invaluable soft skills and technical skills by creating a logic puzzle game using **Java**. Through the process of building the project, I have developed my **self-learning** skills to learn the **Java Swing** framework to create the game user interface and learned to **apply in-class knowledge** on Java to develop the game logic. Furthermore, I have enhanced my **critical thinking** and **problem solving skills** as the game not only requires programming skills but mathematical knowledge, specifically, knowledge in matrices and reduced row echelon from linear algebra, is also needed.

With my skills and abilities, I am confident that I will be suitable for the position. I would appreciate the opportunity to meet and further discuss my qualifications. Please contact me at **(365) 888 5087** or at tun1@mcmaster.ca to arrange an interview at your earliest convenience. Thank you for your time and consideration.

Sincerely,
Hien Tu