

# Muyeed Hossain

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## Technical Skills

- **Languages/Frameworks:** Java, Spring Boot, Python, JavaScript, TypeScript, React, Node, NextJs, Kotlin, VBA, HTML, CSS, Numpy, Pandas, Scikit-Learn, PyTorch, Tensorflow, SQL, MSSQL, MongoDB, Elasticsearch
- **Tools:** Bitbucket, Azure, Power BI, Jira, Jenkins, Datadog, Git, Docker, Kubernetes, Unix, Excel, Confluence

## Work Experience

### PointClickCare (PCC)

Mississauga, ON, Canada

Software Engineer Co-op

May 2024 - September 2024

- Developed a scalable 2-legged user search API for the IAM team in Spring Boot, integrating across PCC products
- Optimized search performance, reducing Azure SQL query latency by 90% through database analysis, execution plans, and JMeter load testing; later enhanced with Elasticsearch integration for faster response times and scalability
- Collaborated with the Cloud team to host an Elasticsearch service with 99.99% uptime, built Logstash pipelines for data ingestion and sync from SQL DB, and enabled Change Tracking in Azure SQL to support data synchronization
- Implemented Java-Elasticsearch service within the user search API in Spring Boot as part of a feature flag, reducing response times by 400% with a p99 of 500ms and enhancing search scalability
- Created JUnit integration, unit, and acceptance tests with test containers to ensure reliability and coverage of the API

### Ontario Public Services (OPS)

Toronto, ON, Canada

Software Developer Co-op

May 2023 - December 2023

- Developed user interfaces for Next.js microservices leveraging React and TypeScript, translating wireframe UI & UX designs and user stories into tangible components and pages for a large-scale project
- Integrated a web application transaction system for a microservice and collaborated with the back-end team to align API calls and responses with front-end requirements for efficient transaction management

### Advanced Micro Devices (AMD)

Markham, ON, Canada

Network Engineer Co-op

May 2022 - May 2023

- Developed a Python application for implementing solutions in network device usage analysis across various sites, to aid in business planning and project management
- Automated configurations for mass networking devices using Python scripts, enhancing operational efficiency
- Collaborated with 20+ engineering teams to assess lab requirements, create network diagrams, and deploy 100+ switches (Cisco, Aruba, Arista) across data centers and labs, supporting 500+ servers and test systems
- Resolved over 400 network requests, achieving a 400% KPI improvement and minimizing service downtime, by troubleshooting issues related to LAN/WAN/VPN, WiFi, DHCP, TCP/IP, Firewall, and other network-related issues

## Projects

### TMU MarketPlace - E-commerce App | React, Node.js, JavaScript, PostgreSQL, Supabase, CSS, Tailwind

- Developed a responsive sprint-based e-commerce web app for TMU students to buy and sell items
- Designed and developed 30+ 2-legged REST APIs with JWT token verification middleware for secure data access

### Species Catalog - DBMS App | React, Java, Spring Boot, Tailwind, Firebase, MongoDB, Redux

- Developed a responsive full-stack database application for efficient storage and retrieval of species data
- Implemented OAuth2.0 using spring security, 2-legged APIs for CRUD operations, and efficient search functionality

### Soccer Dashboard - Power BI Dashboard | Power BI, DAX, REST API

- Built a comprehensive dashboard that conveys insights and statistics on teams and players in the soccer world

## Education

### Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON, Canada

Bachelor of Science, Computer Science (Co-op)

September 2020 - April 2025

- **GPA:** 4.11/4.33, **Awards:** Dean's List (x3), Renewable Scholarship (Highest Level)
- **Relevant Courses:** Data Structures, Database Systems, Data Science, Machine Learning, AI, Soft. Eng, Algorithms