

Muyeed Hossain

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Technical Skills

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

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
- Utilized Hibernate and JPA to create and optimize complex SQL queries, reducing Azure SQL latency by 90% through database analysis, execution plans, and JMeter load testing
- Collaborated with Cloud team to build Logstash pipelines for migrating data from Azure SQL to Elasticsearch, and implemented data synchronization solution using Azure SQL Change tracking
- 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 scalable Next.js microservices using React, TypeScript, and JavaScript for Ontario's driver's license and health card online renewal site, transforming UI/UX wireframes into responsive, reusable components and pages
- Integrated a transaction system into the renewal website, collaborating with backend teams to align API responses

Advanced Micro Devices (AMD)

Markham, ON, Canada

Network Engineer Co-op

May 2022 - May 2023

- Developed Python scripts for implementing a solution 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
- Consulted with 20+ engineering teams to assess lab requirements, design network architecture, and deploy 100+ switches (Cisco, Aruba, Arista) across data centers and labs, currently 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 full-stack web app for TMU students to buy and sell items
- Designed and developed 30+ 2-legged RESTful APIs with JWT token verification middleware for secure data access

Soccer Data Analysis - Power BI Dashboard & Machine Learning Model | Power BI, NumPy, Pandas, ScikitLearn, Python

- Created a comprehensive dashboard that conveys insights and statistics on teams and players in the soccer world
- Built an ML model to predict player and team performance using regression, classification, and clustering algorithms

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

Education

Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON, Canada

Bachelor of Science, Computer Science (Co-op)

September 2020 - April 2025

- **GPA:** 4.10/4.33, **Awards:** Dean's List (x3), Renewable Scholarship (Highest Level)
- **Relevant Courses:** Data Structures, Database Systems, Data Science, Machine Learning, AI, Soft. Eng, Algorithms