

Muyeed Hossain



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[Portfolio Website](#)

EDUCATION

Candidate for Bachelor of Applied Science in **Computer Science (Co-op)**
Toronto Metropolitan University (formerly Ryerson), Toronto, ON

September 2020 - April 2025

- Possess a GPA of 4.14 out of 4.33. Dean's List x2.

Technical skills

- **Languages:** Python, JavaScript, C, C#, Java, Visual Basic, Lisp, Bash
- **Libraries/frameworks:** React.js, Node.js, Express.js, Next.js 13, ASP.NET, SQL, NumPy, Panda, Paramiko, Netmiko, HTML5, CSS3, Bootstrap, Tailwind, Semantic UI, UNIX/LINUX
- **Tools:** Git, Github, Azure, MongoDB, Dockers, MS Stack (Power Automate, Power Virtual Agent, Power Portal, Dynamics 365), Confluence, SNOW, Sharepoint, Visio, SDLC, SCRUM, Computer networking (possess Cisco CCNA1, CCNA2, CCNA3, CCNA4 certifications), Cisco/Aruba, Wireless technologies

Work EXPERIENCE

Analyst Developer (Co-op) - Ontario Govt. | MS stack, Azure, Git, Node.js, ASP.NET
Toronto, ON

May 2023-Sept 2023

- Developed and maintained DevOps pipelines using Microsoft Azure and git, facilitating seamless application deployment and migration across various production and non-production environments.
- Identified and resolved bugs in model-driven apps, ensuring optimal performance and user satisfaction through troubleshooting and debugging.
- Leveraged various Azure services such as Translator, OPENAI, and conducted extensive API testing using both Node.js and ASP.NET, ensuring reliability, performance, and adherence to specifications before integrating them into Power Automate workflows for multiple POC projects.
- Designed and deployed interactive chat bots in Power Apps using Power Virtual Agent, providing customers with real-time assistance and enabling quick and accurate information retrieval.
- Proactively addressed and resolved issues with Power Virtual Agent, ensuring uninterrupted operation and a seamless conversational experience for users.

Achievements

- Successfully conceptualized, designed, and implemented multiple Proof-of-Concept (POC) projects individually, showcasing innovative solutions and technologies to key stakeholders and business teams for potential system and process improvements.

Network Engineer (Co-op) - AMD | Infoblox, Clearpass, Aruba, Cisco, SolarWinds, Python **May 2022 - May 2023**
Markham, ON

- Collaborated with 20+ engineering teams to assess their lab requirements, create high-level network diagrams, and successfully deploy 100+ Cisco, Aruba, and Arista switches across data centers and labs, supporting 200+ servers and test systems.
- Improved business planning and project management efficiency by developing a Python application to analyze and acquire data to summarize network device usage across specific sites, providing valuable insights for decision-making.
- Demonstrated strong troubleshooting skills by efficiently resolving over 400 network tickets and requests related to LAN, WIFI, DHCP, firewall, APs, authentication, drivers, hardware, OS, RDP/VNC, switching/routing protocols, PXE, and other network components, minimizing service downtime.
- Created python scripts to automate and push switch configurations for mass devices
- Ensured network stability and security by effectively managing and monitoring switches and routers, including their integration into SolarWinds.
- Resolved LAN and WIFI authentication issues by performing in-depth analysis of Radius server and network packet flow through packet capture, adhering to TCP/IP model guidelines.
- Created, configured, monitored DHCP subnets to ensure 40+ engineering team's systems and servers connectivity.
- Ensured accuracy and currency of network design documentation and data by documenting and updating 50+ Visio files and spreadsheets, enabling up-to-date network understanding and efficient troubleshooting.

Achievements

- Accomplished 400 % KPI for troubleshooting and resolving network related, windows, hardware issues. Resolved 400+ out of expected 100.
- Recognized as an excellent co-op student, and received a Spotlight Award for contribution.

Computer Technician - PcNix Toronto, ON

July 2019 - August 2019

- Assembled many PCs successfully from scratch by installing motherboards, processors, and graphics cards, etc.
- Upgraded and re-imaged laptops/desktops, improving speed and performance.
- Updated software versions with patches and new installations to close security loopholes and protect users. Updated and installed new OS and windows drivers on the computers.
- Disassembled computer systems to troubleshoot and resolve hardware issues. Resolved Peripheral device issues.
- Backed up data, helping alleviate lost information following malware incidents or hardware failure.

Personal Projects

Vinto | *React, Node, MongoDB, Tailwind, CSS, Firebase cloud storage, firebase auth* **June 2023**

- Vinto is a full stack picture sharing app with a meticulously crafted user interface and captivating aesthetics, tailor-made for photo enthusiasts and visual storytellers to store user data.
- Basic social media app features are all implemented alongside album/collection, image filters, and other image related features.
- MongoDB, including database references, and firebase cloud storage are used simultaneously to store data

Species Catalog | *React, Node, MongoDB, Tailwind, CSS, Firebase cloud storage, firebase auth* **May 2023**

- A database management full stack responsive app designed to record data of different plant species.
- Auth implemented with restrictions to ensure only a user with admin role can access the app dashboard and add/edit/delete data records.
- A public route/page is also provided for the client and the public to view different pictures and information of the species in a visually appealing gallery-show manner

Dublo - **Social-Media-app** | *React, Node, MongoDB, Firebase, HTML5, CSS3, JavaScript, Tailwind* **April 2023**

- Created a fully functioning, responsive full stack social media app where users can easily make accounts/login and add friends or interact with them by sharing posts, liking posts, commenting, etc.
- Leveraged Firebase API for user authentication and authorization and SDK for user verification
- Designed and developed RESTful APIs to handle CRUD operations, optimizing the database structure to efficiently manage complex relationships and references between user profiles, posts, comments, and other entities.
- RESTful APIs are secured and only granted access to valid logged in users via token and firebase SDK

Network Switch data analyzer | *Python, Netmiko, regex, Object-oriented-programming* **March 2023**

- Developed a Python-based CLI application using the Netmiko library to establish SSH connections with network switches and retrieve data by executing show commands.
- Implemented a sophisticated algorithm utilizing regular expressions to filter and extract relevant information from the retrieved data.
- Provided a user-friendly interface for summarizing the collected data based on custom commands, enabling efficient analysis and reporting for network administrators.