

# Muyeed Hossain

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## Education

**Bachelor of Science, Computer Science (Co-op) - Toronto Metropolitan University** **September 2020 - April 2025**  
(Formerly Ryerson University)

- **GPA:** 4.14/4.33
- **Awards:** Dean's List (x2), Renewable Scholarship (Highest Level)

## Technical Skills

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

## Experience

**Analyst Developer - Government of Ontario (MPBSD)** | *Toronto, Ontario* **May 2023 - September 2023**

- Leveraged various Azure services such as Translator, OPENAI, and conducted extensive API testing using both Node.js, 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 Portal Apps using Power Virtual Agent, providing customers with real-time assistance and enabling quick and accurate information retrieval.
- Developed and maintained CI/CD pipelines using Microsoft Azure, facilitating seamless application deployment and migration across various production and non-production environments.
- Identified and resolved bugs in Microsoft model-driven apps, ensuring optimal performance and user satisfaction through troubleshooting and debugging.

### 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 - AMD** | *Markham, Ontario* **May 2022 - May 2023**

- 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 all 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.
- Configured, monitored DHCP subnets to ensure 40+ engineering team's systems and servers connectivity.

- **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.

## Projects

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**Dublo** | *React.js, Node.js, MongoDB, Firebase, HTML5, CSS3, JavaScript, Tailwind, Socket.io*

**July 2023**

*Fully functioning, responsive full stack social media app*

- Provides seamless user experience by leveraging React's conditional rendering, pagination/infinite scrolling, form validation, State Management/Context API, and error handling to enhance app functionality.
- Implemented interactive UI components and user interaction handling to enable users to easily add friends, share posts, like, and comment. Utilized Socket.io to enable dynamic content loading and real-time notification features for a more engaging and responsive social media platform.
- Leveraged Firebase API and SDK for secure user authentication and account verification. Developed middlewares to verify token-based authentication.
- Designed and developed RESTful APIs to handle CRUD operations, optimizing the database structure for efficient management of complex relationships and references between user profiles, posts, comments, and other entities.

**Species Catalog** | *React.js, Node.js, MongoDB, Tailwind, CSS3, Firebase, PostgreSQL*

**June 2023**

*Database Management full stack 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.
- Form validation and middlewares implemented before RESTful API handles CRUD operations.
- Lazy loading implemented with pagination to improve initial page load time and data rendering, improving user experience. Search functionality is also implemented to “scroll” to the searched item.
- A public route/page is also provided to view different pictures and information of the species in a visually appealing gallery-show manner

**Vinto** | *React.js, Node.js, MongoDB, Tailwind, CSS, Firebase cloud storage, Firebase auth*

**June 2023**

*Responsive full stack picture sharing app*

- Aesthetic app design with interactive UI components to serve basic social media app features.
- Specific functionalities such as lazy loading, infinite scrolling are implemented to improve quick image load time.
- MongoDB, including database references, and firebase cloud storage are used simultaneously to store data

**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 regex expressions to filter and extract relevant information from the retrieved data based on user command.
- Provided a user-friendly interface for summarizing the collected data based on custom commands, enabling efficient analysis and reporting for network administrators.