

MUSA AHMED

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SKILLS

Programming Languages: C#, Python, JavaScript, HTML/CSS, Bash, SQL, Java, C

Development Tools: Visual Studio, Rider, Vim, VsCode, Git, GitHub, Azure DevOps

Development Frameworks: .NET, ASP.NET Core, Blazor, React.js, TailwindCSS

Additional Areas of Knowledge: Linux System & Server Administration, DevOps (Docker, GitHub actions, CI/CD), Domain Management & Web Hosting

EDUCATION

University of Guelph

September 2022 - April 2027

Bachelor's, Computer Science

- Object-oriented programming, Operating Systems, Structure and Application of Microcomputers
- Analysis and Design of Computer Algorithms, Digital Systems I, Introduction to Cryptography

PROFESSIONAL EXPERIENCE

Insignia Software

Edmonton, AB, Canada

Junior Software Developer (Co-op)

May 2024 - December 2024

- Led the redesign of the company's website, improving its user interface and accessibility: insigniasoftware.com
- Utilized the .NET ecosystem (Blazor, ASP.NET, EntityFramework, WPF) to enhance and create new software applications, improving usability and client satisfaction.
- Reduced operational inefficiencies by 75% by implemented the NCIP communication protocol, enabling seamless integration between library systems

Student Works

Guelph, ON, Canada

Production Manager (Non Technical)

January 2023 - August 2023

- Gained experience in delegation, team coordination, conflict management
- Developed conflict management strategies to ensure smooth team operations under tight deadlines.

PROJECTS

Wardrobe Manager - [Link to project](#)

July 2024 - Present

- Designed a full-stack wardrobe organization app with a Blazor WebAssembly frontend styled using TailwindCSS, enabling users to easily manage clothing items.
- Built a robust backend with ASP.NET Core Minimal Web API and Entity Framework to handle secure authentication and advanced filtering of data.
- Developed CI/CD pipelines to streamline deployment and maintain Docker images for both the API and presentation layers, making the application self-hostable.

Personal Website - [Link to project](#)

September 2021 - April 2022

- Created a responsive, mobile-friendly portfolio site using React.js, showcasing personal and professional projects.
- Mastered domain and web hosting management through deployment on Vercel and integration with custom DNS configurations.

8-Ball Pool Simulator - [Link to project](#)

January 2024 - March 2024

- Simulated realistic pool gameplay by leveraging SWIG and Python for interfacing with a C-based simulation engine.
- Managed game state using a Python web server and SQLite database, ensuring efficient gameplay rendering.
- Integrated Python and JavaScript to enable an interactive user experience in the browser.

Selfhosting Applications In Homelab

September 2022 - Present

- Orchestrated over 20 self-hosted services using Docker Compose, improving personal infrastructure for media streaming, home automation, and source control.
- Configured secure local domains with Let's Encrypt wildcard certificates and WireGuard VPN for remote access, optimizing security and accessibility.
- Streamlined public access through Cloudflare tunnels, showcasing proficiency in DNS management and server administration.