Mississauga, ON

MOMIN NASEEM

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EMPLOYMENT

Software Engineer, Intern **Project Human City** **Dec 2022-Present**
- Developed and deployed JavaScript web applications using frameworks such as ReactJS and NodeJS, optimizing code to increase user engagement by 30%.
- Designed and implemented a scalable and efficient ORM using GraphQL and MongoDB, resulting in an improvement of 50% in latency and performance.

Backend Engineer, Intern **EWorx** **June 2022 – Dec 2022**
- Collaborated in an agile environment to develop an automated grading system, reducing grading time and enhancing efficiency.
- Optimized ReactJS and .NET Core codebase, resulting in a 50% improvement in performance and reduced latency.
- Successfully deployed a scalable .NET backend application on AWS, serving 5,000 users.

Data Engineer, Intern **Weerv** **Mar 2022 – July 2022**
- Streamlined data retrieval by automating manual queries using REST API and SQL integrations in C#, significantly reducing product lookup time.
- Developed and implemented a distributed data infrastructure, improving data analysis accuracy by 30% in just 5 months.

EDUCATION

Mississauga, ON **University of Toronto** **Sept 2019 – June 2023**
- Honours Bachelor of Science in **Computer Science**.
- Undergraduate Coursework: Software Foundations; Computer Architecture; Artificial Intelligence; Comparison of Algorithms; Computational Theory; Software Engineering; Programming Languages.

TECHNICAL EXPERIENCE

Projects
- **Scalable Database Algorithms** (2022). Implemented parallel database join and partitioning algorithms, achieving 5x scalability improvement using OpenMP and MPI libraries. **C++**
- **Image Classification and Natural Language Processing** (2022). Developed text and image classification models (KNN, Naive Bayes, MLP), leveraging training data and fine-tuning through performance profiling. **Python, TensorFlow, Pandas, NumPy**
- **CUDA Image Processing** (2022). Utilized CUDA C++ API to implement GPU-accelerated image processing with various filters, achieving 10x faster performance. **C++, CUDA**
- **EXT2 File System Implementation** (2023). Built an EXT2 file system from scratch, incorporating core functionalities and metadata management for Linux-based systems. **C**
- **Unix Shell** (2022). Created a bash-like shell with features such as environment variables, and file streams, including TCP client-server communication for remote command execution. **C, C++**

ADDITIONAL EXPERIENCE AND AWARDS

- **CS50AI (2022):** Successfully completed HarvardX Introduction to AI certification.
- **Azure AZ-500 (2021):** Successfully acquired Azure AI fundamentals certification.

Languages and Technologies

- C++; C; Java; Python; C#; .NET; JavaScript/TypeScript; SQL; PostgreSQL; MongoDB; RESTful APIs
- Visual Studio; Microsoft SQL Server; Eclipse; Xcode; Linux; UNIX; AWS; GCP; Git; DevOps; SDLC