Shoimya Chowdhury

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Objective: Highly skilled and motivated computer scientist seeking a challenging role as Software developer or Full-stack developer, leveraging my technical knowledge, problem-solving abilities, and collaborative mindset.

EDUCATION

Michigan State University, **College of Engineering**, East Lansing, MI *August 2019 - May 2023*
Bachelor of Science, **Computer Science and Engineering** *GPA: 3.69/4.0*
Honors & Awards: 4x Dean's List

TECHNICAL SKILLS

- Python, C++, MYSQL, HTML5, CSS, Git, C#, JavaScript, C.
- OOP, Python Flask, Docker, .NET Architecture, ASP.NET CORE, MVC, Unix/Linux, Microsoft Azure, Kubernetes, RDBMS, Bootstrap, Jupyter hub, Google Cloud Platform, Scikit-Learn, ARM, MS Office.
- Full-Stack Web Development, API, Software Development Life Cycle, Scrum, Test Driven Development, Unit Testing, Integration Testing, Version Control, Machine Learning.

RELEVANT EXPERIENCE

Full-stack Developer (Capstone Design Team)

RPM Freight Systems, Royal Oak, Michigan *January 2023 – May 2023*

- Directed a team of 6 engineers in successfully designing, developing, testing, and deploying an order management system with a machine learning backend procedure to effectively cluster orders, optimized the shipping process by **43%**.
- Engaged in regular client meetings to reinforce requirements, ensuring alignment and successful software development.
- Implemented Spectral Clustering model to accurately cluster orders based on geographic coordinates, effectively solving the problem. Applied Principal Component Analysis as a preprocessing step to effectively reduce the dimensionality of the data.
- Leveraged **ASP.NET CORE MVC**, **Azure Machine Learning Services**, **MS SQL Database**, and **sci-kit learn** library to develop and deliver a successful project.

Web Development and Business Research Intern

DataSoft Systems Bangladesh Ltd, Banani, Dhaka *June 2022 – August 2022*

- Conducted extensive research on Dhaka and Chittagong Stock Exchange, and other platforms to embrace user interface and user experience standards. Utilized research findings to create a comprehensive **Business Requirement Document**, providing clear guidelines for the development process of the trading platform.
- Developed a console application in Visual Studio using **C#** and **HTML Agility Pack** to extract real-time market information from Dhaka and Chittagong Stock Exchange. Implemented data scraping functionality to store crucial market information in user-defined objects, facilitating data display on the team's trading platform.
- Contributed to **functional testing** of software and identified defects in early stage of the **SDLC** and generate test report.

PROJECTS

Hate Speech Recognition – Michigan State University   *September 2022 – December 2022*

- Collaborated with a team of three engineers to train and evaluate **sci-kit learn** and **Google Bert** models for hate speech detection.
- Achieved accuracy rates exceeding **89%** in hate speech detection using real-world datasets and advanced techniques.

NFT Trading Platform - Michigan State University   *January 2023 – May 2023*

- Engineered a **responsive** NFT Trading Platform, utilizing **Python Flask**, **Docker**, **MySQL**, and **Google Cloud Services**, to provide an optimized user experience across various devices.
- Successfully handled a load of 200 customers during extensive testing, ensuring efficient and seamless transactions.

Sparty Gnome Platform Game - Michigan State University   *January 2022 – May 2022*

- Cooperated in a cohesive team of five engineers to create an engaging side-scrolling game featuring 3 immersive levels, using **C++**, **wxFormBuilder**, and **wxWidgets**.
- Applied object-oriented programming (**OOP**) principles such as inheritance, encapsulation, observer, and adapter for efficient code structure and employed **Git** for streamlined collaboration and version control.

Interests – Soccer, Music, Travelling, Fitness, Financial Technology, Machine Learning & Artificial Intelligence.