Mir Md Mohiuddin Abrar | Resume

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Summary

Computer Science undergraduate with a CGPA of 3.55, strong foundations in Python, Object-Oriented Programming, data structures, algorithms, relational databases, and web technologies. Experienced in building academic full-stack projects, working with machine learning models, and currently researching LLM quantization. Interested in Trainee Software Engineer roles involving .NET, Python, REST APIs, database systems, testing, and enterprise software development. Available to start from June 2026.

Education

BRAC University **Dhaka, Bangladesh**
Bachelor of Science in Computer Science, CGPA: 3.55/4.00 *Expected 2026*

Technical Skills

Programming: Python, C, JavaScript, SQL, basic C#

Web: HTML, CSS, JavaScript, React, Node.js, Express.js, REST APIs

Database: MySQL, relational database design, SQL queries, SQLAlchemy, basic MSSQL concepts

CS Concepts: Object-Oriented Programming, Data Structures and Algorithms, Problem Solving

AI/ML: Machine Learning, Neural Networks, NLP, LLMs, Sentiment Analysis, LLM Quantization Research

Tools: Git, GitHub, VS Code, Google Colab

Software Engineering: Requirement Analysis, SRS Documentation, Use Case Diagram, ER Diagram, Class Diagram, Sequence Diagram, Activity Diagram, Testing, Debugging

Projects

AI-Assisted E-Commerce Website
Ollama and Cloud based project

- Developed a full-stack e-commerce web application following the complete software development life cycle, including requirement analysis, system design, implementation, testing, and documentation.
- Implemented core features including user registration, login, product management, dashboard functionality, CRUD operations, search/filter options, and database integration.
- Designed system models and documentation including SRS, use case diagram, ER diagram, class diagram, activity diagram, sequence diagram, and test cases.
- Applied modular development practices by separating frontend, backend, and database responsibilities to improve maintainability and scalability.
- Collaborated with team members using Git/GitHub, task division, debugging, and iterative development practices.
- Integrated AI-assisted development workflows to improve planning, documentation, debugging, and feature refinement.

Independent Research
LLM Quantization Research

- Currently researching Large Language Model quantization techniques to understand how model size, memory usage, and inference efficiency can be improved.
- Studying concepts such as reduced precision representation, model compression, inference optimization, and practical deployment limitations of LLMs.
- Building foundational knowledge in efficient AI systems, NLP, and modern LLM deployment workflows.

BRAC University **Google Colab**
Sentiment Analysis Project: Model Comparison

- Compared machine learning models for classifying IMDB movie reviews as positive or negative using traditional ML and deep learning approaches.
- Used Bag-of-Words and TF-IDF text representations to train Logistic Regression and Naive Bayes models.
- Implemented an RNN model with GloVe word embeddings for deep learning-based text classification.
- Evaluated model performance and found Logistic Regression with Bag-of-Words achieved the highest accuracy of 88%.

Personal Project **github.com/AbrarUI12/Pastport**
Pastport

- Built a time-capsule style web application that allows users to draft and schedule future messages, notes, and invitations.
- Implemented public/private visibility logic and a contingency-based message release concept using designated trustees.
- Demonstrated skills in frontend design, scheduling logic, user-focused workflows, and secure feature planning.

Relevant Strengths

Software Development: Strong interest in learning enterprise-grade software development using .NET, Python, REST APIs, and relational databases.

Problem Solving: Comfortable with analytical thinking, debugging, algorithmic problem solving, and structured software design.

Teamwork: Experience collaborating in academic software projects with documentation, version control, and iterative development.

Learning Mindset: Passionate about learning new technologies, AI-assisted development tools, cloud concepts, and modern software engineering practices.

Availability

Available to start from June 2026.