

MD. HABIBULLA MISBA

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SUMMARY

Final-year Computer Science undergraduate at United International University with interests in software development, system design, AI, robotics, embedded systems, and IoT. Experienced in full-stack development with a strong foundation in data structures, algorithms, software engineering, and testing. A **fast learner** who leverages modern development tools to rapidly build, debug, and deliver practical, high-quality software solutions while **continuously adapting** to emerging technologies.

FEATURED PROJECTS

CAI – Decentralized-Distributed LLM-Inference

Kubernetes, Sandbox, Python, Distributed Systems

- Designed a distributed system for efficient LLM inference using model partitioning and adaptive scheduling.
- Implemented telemetry-driven monitoring with feedback control for runtime optimization.
- Applied techniques such as KV-cache optimization and mixed-precision computation.
- Deployed scalable infrastructure using Kubernetes on commodity hardware.
- Documented system design and evaluation using IEEE-style research methodology.
- **Live Link(Render):** cai-cluster-ai-decentralized-llm-in.vercel.app/

MythicOS – AI-Native Agent Development Operating System

Tauri, Next.js, NestJS, Neo4j, Redis, Python

- Architected a modular multi-agent supervisor system with Planner, Cartographer, and Historian agents coordinating via an asynchronous event bus.
- Engineered a reactive AST parsing pipeline in TypeScript to build codebase relationship models, synced incrementally to a Neo4j graph database.
- Optimized LLM token consumption by using graph traversals for surgical context retrieval instead of full codebase scans.
- Designed a supervision dashboard using Tauri and Next.js with Monaco Editor integration and interactive D3.js knowledge graphs.
- **Live Link:** mythic-os.vercel.app/

Galactico – GitHub Integrated Project Management Tool

Spring Boot, Java, REST APIs

- Built a web-based project management platform integrated with GitHub APIs for task and sprint tracking.
- Developed RESTful backend services using Java.
- Designed modular system architecture and implemented clean, maintainable code practices.
- Collaborated using Git workflows in a team environment.
- **Live Link(Render):** galactico-smart-github-integrated.onrender.com

VAI Radiology LLC — Task Image Annotation App *Next.js, TypeScript, Django REST Framework, Zustand, SQLite*

- Developed a Kanban board with drag-and-drop, date filtering, and tag search backed by a Django REST API with JWT auth and Django ORM persistence.
- Built a medical image annotation tool with polygon drawing, MPR viewer (Axial/Coronal/Sagittal), custom color picker, and category-grouped annotation sidebar.
- Handled DICOM/NIfTI uploads via batched API requests and deployed the app across Vercel (frontend) and Render (backend).
- **Project Repository(Frontend):** [github.com/misbah7172/VAIRadiologyLLC – Frontend](https://github.com/misbah7172/VAIRadiologyLLC-Frontend)
- **Project Repository(Backend):** [github.com/misbah7172/VAIRadiologyLLC – Backend](https://github.com/misbah7172/VAIRadiologyLLC-Backend)

E-Commerce Website

Next.js, TypeScript, MySQL, Redis

- Built a full-stack application using Next.js, TypeScript, MySQL, and Redis.
- Developed admin panel, analytics system, and backup features.
- Implemented Docker-based deployment with CI/CD and Kubernetes.

UIU Mars Rover & UIU CanSat Projects

Embedded Systems, Linux, C/C++

- Contributed to autonomous rover and satellite systems as a software team member.
- Configured Linux environments and integrated embedded software with hardware.

Machine Learning & Data Mining Projects

Python, Scikit-learn, Data Mining

- Implemented and compared core machine learning algorithms across multiple classifier types.
- Built a real-world data mining pipeline focused on smartphone reliability and battery chemistry analysis.
- **Project Repository:** github.com/misbah7172/Downgrade-of-Smartphone-Data-Mining

DropEx – Logistics Courier Service Platform (DBMS Lab Project)

SQL, Database Design

- Designed a relational database schema with normalization and constraints.
- Implemented CRUD operations and optimized query performance.
- Ensured data consistency and basic system security.
- **Project Repository:** github.com/misbah7172/DropEx

ACHIEVEMENTS

Codex Community Meetup – Regional Speech Recognition Model

OpenAI Codex, AI/ML

- Selected as one of the winners of \$100 Codex Credits at the Codex Community Meetup, presented by Cloudly InfoTech Limited and jointly organized by UIU Computer Club and UIU Data Science Club.
- Developed a Regional Speech Recognition Model aimed at improving speech recognition capabilities for regional languages and dialects, making AI technologies more accessible and inclusive.
- **Project Repository:** github.com/misbah7172/regional-speech-recognition

Certificate of Appreciation – UIU CanSat Project

NASA CanSat Competition 2025

- Awarded a Certificate of Appreciation in recognition of valuable contribution to the UIU CanSat project as an Associate Member of the Software Team for the CanSat Competition 2025.
- Certificate co-signed by the Team Mentor and Head of the EEE Department, UIU; affiliated with NASA, U.S. Naval Research Laboratory, VAST, and United International University.

EDUCATION

United International University (UIU)

B.Sc. in Computer Science and Engineering

2022 – 2026

Dhaka, Bangladesh

Dhanmondi Ideal College

Higher Secondary Certificate, Science – GPA 5.00

2018 – 2020

Dhaka, Bangladesh

Chakoria Grammar School

Secondary School Certificate, Science – GPA 5.00

2018

Cox's Bazar, Bangladesh

SKILLS

Programming Languages: Java, Python, C/C++

Frontend: JavaScript (React, Next.js), TypeScript

Backend: Spring Boot (Java), Express.js (Node.js), PHP, RESTful API Development

Databases: MySQL, PostgreSQL, MongoDB, Redis

MLOps: MLflow, DVC

DevOps: Docker, Kubernetes, Nginx, GitHub Actions, Linux

Tools: Git, Postman, AI Tools

REFERENCES

References are available upon request.