

Farhan Abid Ahmed

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Computer Science graduate with a fairly strong foundation in backend development, database design, and server-side programming. Experienced in building and maintaining robust web systems, with a growing focus on performance optimization, deployment, and scalable architecture. Eager to contribute to dynamic engineering teams.

EDUCATION

Ahsanullah University of Science & Technology

Bachelor of Science | Computer Science & Engineering

July 2019 – Sept 2024

CGPA: 3.17

- **Relevant coursework:** Data Structure & Algorithms, Software Development, Cyber-Security, Artificial Intelligence, Machine Learning, Deep Learning, Database, OOP, Computer Graphics etc.

WORK EXPERIENCE

BASCAP Project | Live at: <https://www.bascaproject.com/>

Full-Stack Engineer

Oct 2023 – April 2024

- Collaborated with Bangladesh University of Health Science (BUHS) & University of Southern Denmark (SDU) to gather project requirements and ensure alignment with their objectives.
- Engineered a dynamic web platform using Core PHP, handling both front-end and back-end tasks.
- Implemented REST-style routing, basic user auth, and dynamic data handling.
- Maintained & optimized MySQL queries to ensure system reliability.

DynaZen Media

Back-end Engineer

June 2023 – June 2024

- Developed and maintained backend infrastructure for the company's media platform.
- Worked with Laravel, MySQL, Redis, and Docker to build scalable backend services and API endpoints.
- Led integration of dynamic content modules and secure database interactions.

RESEARCH EXPERIENCE

AISIP Lab | Ahsanullah University of Science and Technology

June 2024 – Present

Research Assistant

- I am conducting research in ML, IoT, Distributed systems and cloud computing, with a focus on cybersecurity applications.

PROJECTS

ThrottleAndThermo | Go, Docker, Redis | [Source Code](#)

- Engineered a two-microservice system where a Go-powered rate limiter (Throttle) and a dynamic weather API (Thermo) communicate over Docker Compose networks. Implemented Redis-backed distributed rate limiting for high concurrency support. Fine-tuned multi-container orchestration, API authentication, and service discovery.

ScreenCrate | ASP.NET & Microsoft SQL | [Source Code](#)

- Developed a scalable video streaming platform with pay-per-view logic. Integrated secure user auth and SQL-backed content delivery system. Resolved complex data-modeling and connection issues between .NET and SQL.

Cruzin Web Browser | JavaFX & MySQL | [Source Code](#)

- Created a fully functional web browser with JavaFX and WebKit browser engine. Solved dependency and browser-engine compatibility challenges for performance. Further ensured the compatibility of the browser engine with all of the popular websites for a smooth user experience.

Other Projects and Course-works | [Projects](#) | [Course-works](#)

- A collection of other personal and academic projects showcasing my interest and skills in solving problems and software development.

SKILLS & INTEREST

Languages: Go, Python, PHP, C/C++, Java, JavaScript.

Backend & DevOps: RESTful API Development, Database Design, Authentication Systems, Caching (Redis), Deployments, Docker, Linux, Git

Tools: Postman, Figma, Railway, Vercel, StreamLit.

Concepts: System Design, Performance Optimization, Scalable Architecture.

Interests: Backend Engineering, DevOps, Contributing to high-performance systems.

Languages Spoken: Bangla (Native), English (Fluent).

REFERENCES

Dr. Md. Shamim Akhter

Professor & Head

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