

Fuwad Hasan

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EDUCATION

- **North South University** Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering; CGPA: 3.55 *Jan. 2022 – Present*

EXPERIENCE

- **Backtrack Labs** Dhaka (Remote)
Software Engineering Intern (Part-time) *May 2025 – Sept 2025*
 - Built an ad data synchronization platform integrating Google Ads, Meta Ads, Snapchat Ads, and TikTok Ads.
 - Designed **PostgreSQL** schemas and developed scalable **FastAPI** services with a **Next.js** frontend.
 - Developed an **AI insights agent** using **LangChain** and **LangGraph** for campaign analysis and optimization.
 - Worked in an agile, distributed team with sprints, stand-ups, and code reviews achieving 95% on-time delivery.
- **Phoenix Education** Dhaka (Hybrid)
Junior Software Engineer (Part-time) *June 2025 – January 2026*
 - Developed a scalable Learning Management System using **FastAPI** and **PostgreSQL** with **RBAC**.
 - Improved backend performance and scalability by integrating **Redis** caching to reduce database load.
 - Built a **Next.js** admin dashboard to manage users, courses, content, payments, orders, and operations.
 - Led backend and frontend teams and deployed production systems using **Docker**-based **CI/CD** pipelines.

PROJECTS

- **Pitless Bucket** — **Python, FastAPI, Next.js, PostgreSQL, Redis, Docker**. Cloud storage aggregator unifying Google Drive, Dropbox, and OneDrive with **AI agents (LangGraph)** and Docker-based deployment. GitHub
- **Emoji Tools** — **Python, Discord.py, AWS EC2**. Discord-verified, auto-sharded emoji management bot serving 5,000+ servers with scalable AWS deployment. GitHub
- **Physics Chatbot** — **Python, LangChain, Streamlit, ChromaDB, RAG**. RAG-based LLM chatbot assisting grade 9–10 students using local LLMs (Ollama). GitHub

PROGRAMMING ACHIEVEMENTS

- **Team Achievements:**
 - **15th** out of 120 teams — UU IUPC 2025 (Team: *NSU_TheJWord*) 2025
 - **18th** out of 150 teams — UIU IUPC 2025 (Team: *NSU_FiNaLsTraw*) 2025
 - **60th** out of 297 teams — ICPC Asia Dhaka Regional Contest 2025 (Team: *NSU_XudlingPong*) 2025
 - **72nd** out of 160 teams — KUET IUPC 2025 (Team: *NSU_NFT*) 2025
 - **88th** out of 196 teams — JU NCPC (Team: *NSU_HalfHeaven*) 2024
- **Individual Achievements:**
 - [**Global**] Specialist (max rating: 1564) in Codeforces
 - [**Global**] 4* (max rating: 1820) in CodeChef
 - [**NSU**] **Champion** in junior category — Intra NSU Programming contest, 2023

PROGRAMMING SKILLS

- **Languages:** C, C++, Java, Kotlin, Python, JavaScript, TypeScript, SQL, HTML, CSS
- **Libraries/Frameworks:** PyTorch, TensorFlow, NumPy, Scikit-learn, Pandas, Matplotlib, FastAPI, LangChain, LangGraph, Pytest, Next.js
- **Database Management Systems:** MySQL, PostgreSQL, Redis, MongoDB, Convex, ChromaDB
- **Tools/Technologies:** Linux, Git, GitHub, Android Studio, Docker