

ARNAB DEY

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Dhaka, Bangladesh

EXPERIENCE

• BRAC IT Services Limited

September 2023 - Present

Software Engineer

Dhaka, Bangladesh

- Developed 80% of InsightBase - Context-Aware AI service using SpringAI, PgVector and LLM models.
- Contributed 30% on backend development of the successful BRAC EKOTA solution.
- Developed 50% Web UI of the BRAC EKOTA solution.
- Took an active part in the ongoing development of the BRAC SMART-MF Suite(SMART-PO,BM,WEB).
- Worked with BRAC ERP database that has 2400+ tables.
- Guided junior developers to cope with complex project and new technologies.

• BRAC IT Services Limited

June 2023 - September 2023

Software Engineer Intern

Dhaka, Bangladesh

- Added multiple new features to BRAC IT's internal HR-Payroll ERP system.
- Conducted version migration for the HR-Payroll ERP system, reducing CI/CD build time by 80%.

SKILLS

- **Specialized Area:** Algorithms, Data Structures, Object-Oriented Programming, SQL
- **Programming Languages:** Java, C, C++, JavaScript
- **Framework:** Spring Boot, Angular, Flutter
- **Database Systems:** PostgreSQL
- **DevOps & Version Control:** Docker, Gitlab-CI, GIT
- **Other Tools & Technologies:** Linux, RabbitMQ, Elasticsearch, Redis, JHipster

ACHIEVEMENTS

• Competitive Programming Achievements

Solved 1000+ problems on online judges including [Leetcode](#), [Codeforces](#), [Atcoder](#), and [UVA](#).



- IT Club Opening Ceremony Programming Contest (1st Position).
- NSTUSC Science Fest 2022 Programming Contest (3rd Position).
- INTRA University Saif Memorial Junior Programming Contest (3rd position).

EDUCATION

• Noakhali Science and Technology University

January 2019 - December 2023

Bachelor of Science in Software Engineering

Noakhali, Bangladesh

- CGPA: 3.59/4.00

PROJECTS

• BDStockTrend: [Stock price forecasting platform for Bangladeshi stocks]

February 2024 - October 2024

Tools: [SpringBoot, Flask, Postgres, Flutter, Angular, Docker, GitlabCI]



- Developed a data pipeline that regularly update 400+ companies stock price data.
- Implemented scheduled training that regularly train models on companies updated data.
- Created both mobile and web app, ensuring accessibility and usability.

• Project Ovijog: [Platform for people to submit their problems anonymously]

March 2022 - September 2022

Tools: [PHP, MySQL, JavaScript, HTML, CSS]



- Developed a dashboard to display all (solved/unsolved) trending problems.
- Implemented NLP(cosine similarity) to prevent user to post a problem that is already posted.
- Developed with MVC framework that was build from scratch using PHP.
- Nominated as a top 3 project from Noakhali Division for the **Smart Bangladesh Award 2023**.

LEADERSHIP EXPERIENCE

• President

June 2023 - September 2024

IT CLUB, Noakhali Science and Technology University



- Organize and Coordinate programming contests & technological sessions.
- Mentor and guide junior students in competitive programming.