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**, **OOP**, **SQL**, **AI/ML**

• **Programming Languages:** Java, Python

• **Framework:** Spring Boot, Angular

• **AI/ML Frameworks & Libraries:** TensorFlow, Scikit-learn, Pandas, NumPy

• **Data Science & ML Tools:** Jupyter Notebook, Matplotlib, Seaborn

• **Database & Vector Search:** PostgreSQL, Redis, pgvector, Elasticsearch

• **DevOps & Version Control:** Docker, Gitlab-CI, GIT, Linux

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).

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: [FBProphet, ARIMA, 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: [Cosine Similarity, PHP, MySQL, JavaScript, HTML, CSS]   [🔗]

◦ Developed a dashboard to display all (solved/unsolved) trending problems.

◦ Implemented NLP(cosine similary) 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.