Abrar Fahim

Final Year Undergraduate Computer Science Student

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EDUCATION

Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh — BSc in Computer Science and Engineering

Feb 2017 - Present

- Top Engineering University in Bangladesh (CS acceptance rate: ~ 2.5%)
- Current CGPA: 3.71, Major CGPA: 3.91 | Expected Completion Date: Apr 2022

EXPERIENCE

Free Pixel Games Ltd Dhaka, Bangladesh — Junior Software Engineer

Dec 2020 - Jul 2021 (8 months)

- Created and deployed web app to process and serve data to analysts, writing complex SQL queries to generate reports based on input parameters
- Reduced company database (containing millions of records) access times from minutes to seconds by pinging the database for results, maintaining client states in backend, and by caching third-party API data into company database
- Improved visuals of 3 games with graphics team using custom shaders in Unity Editor, a technology never explored by the company before

Fashion E-Commerce Dhaka, Bangladesh — Front End Developer

May 2020 - Dec 2020 (8 months)

- Designed UI and created cross-platform app in React Native
- Built front end of customer and seller websites, both using Angular 2 and PrimeNG

PROJECTS

Similarity Search in High Dimensional Datasets — Thesis Topic Present

- Created custom loss function in PyTorch and made it run in under 4GB GPU memory for ~ 1000 dimensional datasets with millions of points
- Beat baseline approach's supervised learning results by at least 5-10% using unsupervised learning with boosting and an ensemble of 2 models

<u>Alfred</u> — Messenger bot for workplace collaboration Mar 2020

- Conceptualized the idea to create a personalized HR manager for employees
- Led a team of three and did complete requirements analysis
- Created conversation flows for all use cases and trained basic NLP using wit.ai

C to 8086 Assembly Code Generator Jul 2019

- Wrote lexical analyzer in Flex, parser in Bison, and compiler logic in C++
- Did basic peephole optimization to remove redundant memory operations
- Supports function calls with call stack, variables, arrays, and basic C operations.

Megaman — Two player fighting game Mar 2018

 Made animations using sprites, coded game physics, handled networking between two players for real-time matches all from scratch using Java and JavaFX

COURSEWORK

Object-Oriented Programming, Data Structures and Algorithms, Database, Compilers, Networking, Computer Architecture, Artificial Intelligence, Operating Systems, Software Development

SKILLS

Programming Languages

PROFICIENT

C | C++ | Java | Javascript | HTML | CSS BASIC

Python | Go

Frameworks and Tools

PROFICIENT

React.js | React Native | Angular | MySQL | Pytorch | Unity BASIC

Git | MongoDB | Flex and Bison | Assembly | Bash

ACHIEVEMENTS

2021 - Google Hash Code 17th in Bangladesh / 72 local teams

2020 - Google Hash Code 17th in Bangladesh / 83 local teams

2016 - Elected President of Student Council in High School Led and managed a team of approximately 50 prefects and organized main school events

2015, 2016 -Outstanding Cambridge Learner Awards Scored highest marks in the UAE in AS and A level exams in Math, Physics, Chemistry, and Biology