

Abrar Fahim

Final Year Undergraduate Computer Science Student

Dhaka, Bangladesh
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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 (BUET's Computer Science program admits top ~2.5 % out of top ~11,000 performing students)
- Current CGPA: 3.67
- Expected Completion Date: Jun 2022

EXPERIENCE

Free Pixel Games Ltd, Dhaka, Bangladesh — Junior Software Engineer

Dec 2020 - Jul 2021 (9 months)

- Made visualized company game data accessible to more analysts (previously only accessible to two through proprietary software) by building web app to generate graphs from company game database based on query input parameters
- Reduced data analysis team's time taken to go through revenue data by more than half by consolidating data from 4 providers' APIs into a single web app
- Improved visuals of 3 games by working with graphics team and experimenting with custom shaders, a technology never explored by the company before

PROJECTS

Team Collaboration App

- Web App built in a team of three with Go, MongoDB and React.js
- Helps teams plan task budgets and collaborate on current tasks via compartmentalized workspaces, chats and shared file folders

Approximate Nearest Neighbor Algorithms — Thesis Research Topic

- Designed and coded an unsupervised learned index to find approximate nearest neighbors of query points for high dimensional datasets using Python and Pytorch

Megaman

- Network-multiplayer shooting game created in a team of two
- Made animations using sprites, coded game physics, handled networking between two players for real time matches all from scratch using Java and JavaFX

Ray Traced OpenGL Scene

- C program that generates a ray traced version of an OpenGL scene with configurable lights, camera position and object placements

Basic C Compiler

- Basic C compiler using C++, Flex and Bison to generate 8086 assembly code

SKILLS

Programming Languages

C/C++ (Proficient),
Java (Proficient),
Javascript (Proficient),
Python (Intermediate),
SQL (Intermediate),
HTML, CSS (Intermediate)
Go (Basic)

Frameworks and Tools

Front End
React.js, React Native, Angular 2
Backend
Node.js
Database
MySQL, PostgreSQL, MongoDB
Machine Learning
Pytorch
Others
Git, Unity Editor (C# and basic shaders), Flex and Bison (Basic)

AWARDS AND RECOGNITION

Outstanding Cambridge Learner Awards Awarded for highest marks in the UAE in Cambridge International AS and A level exams in Math, Physics, Chemistry and Biology

Recognition for President of Student Council in High School
Lead and managed a team of approximately 50 prefects and organized main school events

INTERESTS

Piano, Football, Badminton, Photography