Pronob Das

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in ○

EDUCATION

Bangladesh University of Engineering and Technology (BUET)

— *B.Sc in Computer Science and Engineering*

Feb 2017 - Present

EXPERIENCE

eSRD-Lab, CSE, BUET — *Internship Trainee*

Feb 2020 - Mar 2020

Worked on an Advanced Java-Based Real-Life Systems Development (building a Hospital Management System) using Java Spring Boot for Application Tier, Angular4 for Presentation Tier and MongoDB for Data Tier.

PROJECTS

Road Rash 2D

A bike racing game inspired by the classic EA RoadRash. It was implemented using **C** in the backend and the UI was built by a custom C graphics library named **iGraphics**.

Ghost Buster

A ghost moving randomly in a room needed to be caught by guessing its actual position by seeing the probabilities of the ghost positioning from a grid representation of the room. It was implemented using **Java** by following the Hidden Markov Model(HMM).

Sudoku Solver

Given an unsolved Sudoku problem, it can produce the solution if there is any. It was implemented using **Java** by following Constraint Satisfaction Problem(CSP) solving techniques.

Smart Garage

Worked on showing empty and occupied parking slots on an LCD screen and also made the gate automatic for incoming and outgoing vehicles based on the garage status. The **ATmega32** chip was programmed to do the task along with other necessary equipment.

AES(Advanced Encryption Standard)

A symmetric block cipher chosen by the U.S. government which is frequently used in software and hardware throughout the world to encrypt sensitive data, was implemented using **Python**.

To see more of my works, please visit my GitHub account.

TECHNICAL SKILLS

Programming Languages:

C, C++	★★★★☆
Java	★★★★☆
Python	★★★☆☆
JavaScript	★★☆☆☆

Frameworks:

Spring Boot	★★★☆☆
Angular	★★☆☆☆

Scripting:

HTML	★★★☆☆
LATEX	★★★☆☆

Database:

PostgreSQL	★★★☆☆
MongoDB	★★☆☆☆

Operating System:

Windows	★★★★☆
Linux	★★★☆☆

Hardware:

ATmega32	★★★☆☆

Graphics:

OpenGL	★★★☆☆
iGraphics	★★☆☆☆

Others:

Git	★★☆☆☆

LANGUAGES

Bangla, English, Hindi.