

# Shovon Sharma

📍 Khulna, Bangladesh    🌐 Github    ☎ +880-1300346877  
✉ sharmashovon875@gmail.com    🔗 LinkedIn    🌐 MyPortfolio

## Technical Skills

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**Languages:** C/C++, Python, Go, Bash

**Databases:** MySQL, Oracle SQL, SQLite, PL/SQL

**Frameworks/Technologies:** PyTorch, Blockchain, Laravel, React

**Tools/Platforms:** Git, Docker, Linux, Node.js

## Projects

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### 1bit BERT for Natural Language Inference (Thesis)

Accomplished efficient and stable natural language inference via a custom encoder-only model incorporating *Bit-Net compression*, *Dynamic-Tanh activation*, and *RoPE positional encoding*. Currently benchmarked on SNLI and MNLI.(ongoing)

### Sharma's Drive – Decentralized File Sharing Platform

Created a *blockchain* based decentralized file sharing and storage system using *Solidity smart contracts*, *Node.js backend*, and *React frontend*, enabling secure, tamper-proof user uploads and retrievals.

### SpicyMew

Developed a full-stack food ordering platform using *Laravel* and *MySQL*, streamlining user experience with real-time ordering, admin interface, and integrated schema management.

### Chomp Chase – AI Maze Race Game

Built a dynamic maze-solving game in *Python*, where players compete against an *AI opponent* that uses the  $A^*$  *pathfinding algorithm* to race toward food in a procedurally generated maze, showcasing real-time decision making and algorithmic game design.

## Education

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### B.Sc. in Computer Science and Engineering

Khulna University of Engineering & Technology (KUET)

Jan 2020 – Present

### Higher Secondary Certificate (HSC)

Govt. M.M City College, Khulna

Board Merit Position: 23

2017 – 2019

## Technical Writing

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- Contributor on Medium, writing in-depth technical blogs on Linux, Blockchain, and AI.
- Notable articles:
  - *The No-Nonsense Guide to Neural Network Normalization (BatchNorm, LayerNorm & RMSNorm): From math to code* [↗](#)
  - *Understanding Vision Transformers from First Principles: Theory and Code* [↗](#)
  - *Let me teach u Bash: From 'hello world' to User Management* [↗](#)