

NISHI KANTA PAUL

✉ nishikantapaul108@gmail.com ☎ +8801767705861 📍 Sylhet 🔄 Paul72 🌐 Paul72 🔗 Portfolio

Education

B.Sc. in Computer Science and Engineering,
Ahsanullah University of Science and Technology
CGPA: **3.749** out of 4.00 (7th out of 100)

2020 – 2024
Dhaka, Bangladesh

Teaching Experience

Competitive Programming Mentor(Remote), Shohoj Coding
Taught topics such as Graph Theory, Number Theory, and Data Structures.

09/2024 – present

Research Experience

Voluntary Researcher – AI in Healthcare (Remote)

02/2025 – present

AI-Driven Parkinson's Disease Screening System

University of Alabama at Birmingham & Temple University

- Designing ML pipelines for voice-based Parkinson's detection
- Conducting signal processing and feature extraction using Python (Scikit-learn, PyTorch)
- Integrating **Large Language Models (LLMs)** to enhance automated medical interpretation and reporting

AI & ML Project

NeuroSight: AI-Powered Brain Tumor Detection ✍

Technologies: Python, TensorFlow, Keras, Flask

- Built a CNN-based web app (VGG16) to detect brain tumors from MRI scans with high-confidence predictions
- Deployed model via Flask and ensured a seamless frontend-backend integration

PDF Insight Chatbot ✍

Technologies: Python, Flask, Ollama, SentenceTransformers, PyMuPDF

- Created a semantic search-driven chatbot that answers questions from user-uploaded PDF documents
- Integrated local LLMs and vector embeddings for accurate, context-aware responses

Quizzify – AI Interview Question Generator ✍

Technologies: Python, Flask, Ollama, LLMs (Phi/Mistral)

- Developed an AI-powered web app that generates technical interview questions based on job roles
- Used local LLMs with customizable difficulty and markdown export

Publications

Video-based Driver Distraction Detection using Transfer Learning: Bangladesh Perspective (Published) ✍

International Conference on Advances in Computing, Communication, Electrical and Smart Systems 2024

Industry Experience

Software Engineer-I, Brain Station-23

07/2025 – present

Frontend Developer (HTML , CSS , JavaScript , TypeScript , React , Next.js)

Dhaka, Bangladesh

- Developed scalable web applications using React, Next.js, and TypeScript.
- Implemented modules for authentication, inventory, billing, and payment (bKash/card).

- Collaborated with cross-functional teams to deliver secure and responsive UI components.

Trainee Software Engineer, Brain Station -23 PLC

03/2025 – 06/2025

Frontend Developer (HTML , CSS , JavaScript , TypeScript , React , Next.js)

Dhaka, Bangladesh

- Built responsive UIs and reusable components with React, Next.js, and Tailwind CSS.
- Contributed to projects including e-commerce, admin panels, job boards, and education platforms.
- Integrated features like form validation, PDF export, image editing, and dashboard functionality.

Skills

Programming Languages

Python, C++, C, C#, Java, JavaScript, TypeScript, HTML, CSS, PHP

AI/ML Libraries & Tools:

Scikit-learn, PyTorch, TensorFlow, Keras, Transformers, OpenCV, Pandas, NumPy, Matplotlib, LangChain, NLTK, spaCy

Web & Frameworks:

React, Next.js, Node.js, Express, Redux, ASP . NET MVC, Flask, JavaFX

Databases

MySQL, MongoDB, Firebase, MS SQL Server

Tools

Git, GitHub, Linux, Postman, LaTeX, Jupyter Notebook, Google Colab, Hugging Face

Competitive Programming

Profiles: Codeforces [🔗](#) | CodeChef [🔗](#) | LeetCode [🔗](#) | Toph [🔗](#) | StopStalk [🔗](#)

Programming Contests

- **ICPC Asia Dhaka Regional Contest 2023** [🔗](#) – **Rank: 116th** (Team: AUST_Tactless)
- **Intra AUST Programming Contest – Spring 2022** [🔗](#) – **Rank: 1st** (Team: AUST_Durnibar)

Software Developments

EduHub44 [🔗](#)

EduHub44 is an educational website developed in PHP, HTML, CSS, and Bootstrap 5 integrated with MySQL.

PersonalDiary [🔗](#)

PersonalDiary is a Desktop application developed in JavaFx and MySQL.

SnapShop-Customer [🔗](#)

Developed a responsive e-commerce platform using React, TypeScript, Tailwind CSS, and Context API with features like product browsing, cart/wishlist management, authentication, multilingual support, and payment integration.

References

Forhad An Naim, Staff Engineer I (Chief Engineer), Samsung R&D Institute Bangladesh
developermithun1990@gmail.com, 01675584888

Mr. Mohammad Moinul Hoque, Associate Professor, Ahsanullah University of Science and Technology
moinul@aust.edu, 01817579779