

# Nishi Kanta Paul

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## 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

**Higher Secondary Certificate (HSC)**  
*Sylhet Government College*  
GPA: **5.00** out of 5.00

2017 - 2019  
Sylhet, Bangladesh

**Secondary School Certificate (SSC)**  
*Boiragi Bazar High School*  
GPA: **4.67** out of 5.00

2014 - 2016  
Sylhet, Bangladesh

## INDUSTRY EXPERIENCE

**Software Engineer-I, Brain Station-23 PLC**

Mar 2025 - present

**ObhaiVTS – Frontend Engineer**

*Technologies: React, Tailwind CSS, Shadcn, Zustand, TanStack Query*

- Enhanced data handling efficiency by 30% through server-side pagination and dynamic filtering
- Improved application responsiveness and real-time updates via TanStack Query integration
- Reduced UI inconsistencies by 20% with centralized Zustand state management

**OneID – Client Portal (Django Admin)**

*Technologies: Django, Keycloak*

- Increased admin efficiency by 25% through real-time analytics dashboard implementation
- Reduced document processing errors by 20% via optimized upload workflows and status tracking
- Secured user sessions with Keycloak-compliant authentication and logout mechanisms

**OneID – Backend Engineer**

*Technologies: FastAPI, PostgreSQL JSONB, Keycloak*

- Accelerated document processing speed by 35% through PostgreSQL JSONB metadata system implementation
- Reduced invalid submissions by 30% with comprehensive NID validation logic
- Implemented Keycloak encryption protocols to secure sensitive user data

## TEACHING EXPERIENCE

**Adjunct Lecturer, Department of CSE**

Jan 2026 - present

*International Standard University, Dhaka*

- Teaching Robotics, IoT, and Competitive Programming courses to prepare students for industry standards
- Designed hands-on laboratory exercises and projects to enhance student employability
- Developed comprehensive course materials aligned with contemporary technological trends

## Competitive Programming Mentor (Remote)

*Shohoj Coding*

Sep 2024 - Dec 2025

- Mentored 50+ students in advanced topics including Graph Theory, Number Theory, and Data Structures
- Increased student contest performance by 30% through targeted practice sessions and problem-solving strategies
- Designed structured curriculum and practice sets for skill progression

## RESEARCH EXPERIENCE

### Voluntary Researcher – AI in Healthcare (Remote)

Feb 2025 - present

- **AI-Driven Parkinson's Disease Screening System** - University of Alabama at Birmingham & Temple University
- Designing machine learning 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 PROJECTS

### NeuroSight: AI-Powered Brain Tumor Detection

[GitHub](#)

*Technologies: Python, TensorFlow, Keras, Flask*

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

### PDF Insight Chatbot

[GitHub](#)

*Technologies: Python, Flask, Ollama, SentenceTransformers, PyMuPDF*

Offline PDF chatbot that uses local LLMs and semantic search to answer questions from uploaded PDF documents via web or CLI interface.

### Quizzify – AI Interview Question Generator

[GitHub](#)

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

Offline AI-powered web application that generates role-based technical interview questions using local LLMs, with Markdown export and difficulty-level selection.

## SOFTWARE DEVELOPMENT PROJECTS

### LibLMS: Library Management System

[GitHub](#)

*Technologies: React, Tailwind CSS, ShadCN UI, PHP*

A full-stack library management system with book borrowing, return tracking, PDF downloads, reviews, user notifications, and advanced search functionality.

### Restaurant Admin Panel

[GitHub](#)

*Technologies: Next.js, PrimeReact, Tailwind CSS*

A responsive admin panel for restaurants with real-time menu and order management, form validation, and efficient state handling.

### SnapShop-Customer

[GitHub](#)

*Technologies: React, TypeScript, Tailwind CSS, Context API*

A responsive e-commerce platform supporting product browsing, cart/wishlist, multilingual UI, authentication, and payment integration.

## PUBLICATIONS

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### Video-based Driver Distraction Detection using Transfer Learning: Bangladesh Perspective

 Md. Muhaiminul Kabir, Md Abrar Nawar, Mehedi Islam Remon, **Nishi Kanta Paul**, Hanif Bhuiyan, Md Moinul Hoque  
International Conference on Advances in Computing, Communication, Electrical and Smart Systems (iCACCESS), 2024

## COMPETITIVE PROGRAMMING

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

- ICPC Asia Dhaka Regional Contest 2023 - Rank: 116th (Team: AUST\_Tactless)
- Intra AUST Programming Contest – Spring 2022 - Rank: 1st (Team: AUST\_Durnibar)

## SKILLS

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<b>Programming Languages</b>	Python, C++, C, C#, Java, JavaScript, TypeScript, HTML, CSS, PHP
<b>AI/ML Libraries &amp; Tools</b>	Scikit-learn, PyTorch, TensorFlow, Keras, Transformers, OpenCV, Pandas, NumPy, Matplotlib, LangChain, NLTK, spaCy
<b>Web &amp; Frameworks</b>	React, Next.js, Node.js, Express, Redux, ASP.NET MVC, Flask, Django, FastAPI, JavaFX
<b>Databases</b>	MySQL, PostgreSQL, MongoDB, Firebase, MS SQL Server
<b>Tools</b>	Git, GitHub, Linux, Postman, LaTeX, Jupyter Notebook, Google Colab, Hugging Face, Keycloak

## REFERENCES

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### Forhad An Naim

*Staff Engineer I (Chief Engineer)*  
*Samsung R&D Institute Bangladesh*  
Email: [developermitun1990@gmail.com](mailto:developermitun1990@gmail.com)  
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### Mr. Mohammad Moinul Hoque

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*Ahsanullah University of Science and Technology*  
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