Tafhinul Hossain **Shahim**

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working on live enterprise projects, supporting clients, and resolving system issues. Focused on building secure, efficient applications with practical data processing and system integration workflows.

Experience

Junior Programmer *Sep 2025 – Present*
New Technology Systems Ltd., Chattogram

- ○ Currently working on a live **e-Mushok (VAT)** software project that complies with Bangladesh VAT regulations, supporting production users and real business operations. The role involves providing technical support to clients, identifying system issues, and resolving software-related problems efficiently. Regularly assist users with debug issues, apply fixes, and enhance system performance.
- ○ Currently working on a **Bank FDR Investment system for Chittagong Port Authority (CPA)**, designing Oracle database structures and developing Python scripts to extract financial data from bank annual reports. Built a **React-based UI** to trigger extraction runs, and implemented API-based data transfer to load processed data into Oracle for analysis and evaluation.
- ○ Previously worked on live **intERPreter** software project. Helped resolve client issues related to inventory processes, data mismatches, and system usage. Gained hands-on experience with enterprise ERP operations and real-world business processes.
- ○ Designed and developed a complete **Meal Management System** using Oracle APEX and PL/SQL for organizational use. Improved operational efficiency by eliminating manual tracking and reducing calculation errors.

Skills

Languages:	C, C++, Python
Frontend:	HTML5, CSS3, Tailwind CSS
Backend:	API Authentication
Databases:	Oracle, PL/SQL, MySQL
Tools:	Git, GitHub, Postman, Oracle APEX
Libraries:	Opencv, Scikit-learn, Pandas, Pytorch
Soft Skills:	Team Collaboration, Requirement Analysis, Communication

Projects

Bank FDR Investment Analysis System (CPA) - [Ongoing] Internal Project

- ○ Built a Python PDF extraction pipeline with context-aware parsing and selective OCR fallback.
- ○ Implemented an enterprise 2FA system using Oracle APEX and PL/SQL with password hashing, TOTP generation, QR-based enrollment, and OTP verification.

Meal Management System Github

- ○ Built an internal meal management system using Oracle APEX with PL/SQL and custom JavaScript and CSS.
- ○ Implemented automated meal cost calculation, summaries, and financial reports.
- ○ Improved operational efficiency and transparency by replacing manual tracking.

Meal Expense Forecasting API MLOps

- ○ Built a FastAPI-based prediction service for monthly meal expense forecasting.
- ○ Managed experiment tracking and model packaging using MLflow.

Driving Licence Management System

- ○ Developed a web-based driving licence management system for applications, renewals, and enforcement.
- ○ Implemented traffic violation tracking and online fine payment modules.

Safety Train Guardian System – IoT

- ○ Developed an IoT-based railway crossing safety system to automate gate control. .
- ○ Used sensors to detect approaching trains and trigger gate operations and alarms.
- ○ Reduced human error and improved public safety at railway crossings

Hand Gesture Recognition System – Deep Learning Github

- ○ Built a real-time hand gesture recognition system using computer vision and CNN-based deep learning models. .
- ○ Implemented hand region detection and gesture classification from webcam and image datasets.

Education

Port City International University *April 2021 – June 2025*
B.Sc. in Computer Science & Engineering *CGPA: 3.66/4.0*
Thesis: Artifical Intelligence Approach Caries Detection Classification using Panoramic Radiography

Certifications & Languages

Advanced Learning Algorithms (Stanford University)	Data Science and Analytics
Introduction to Data Science	