

Adnan Sami Pavel

Software Engineer

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Education

Green University of Bangladesh

Expected August 2025

Bachelor of Science in Computer Science and Engineering (CGPA: 3.09 / 4.00)

Dhaka, Bangladesh

- **Relevant Coursework:** Artificial Intelligence (Python), Machine Learning (Python), Data mining (Python), Data Structures and Algorithms (C++ & Java), OOP (Java), Database System (MySQL).

Professional Experience

QA Harbor Limited

March 20, 2025 – May 10, 2025

Software Quality Assurance Intern

Dhaka, Bangladesh

- Gained hands-on experience with the full Software Development Lifecycle (SDLC), including Agile models.
- Performed manual and automated testing using Playwright.
- Conducted API testing with Postman and applied both black-box and white-box testing techniques.
- Created and maintained comprehensive test reports for manual and automated test cases.

Key Skills Developed

- **SDLC Models:** Waterfall, Agile, V-Model
- **Testing Types:** Manual Testing, Automation Testing, API Testing, Black-box, White-box
- **Tools:** Postman, Playwright
- **Documentation:** Test Case Creation, Bug Reporting, Test Documentation

Intradoc International

November 1, 2024 – March 10, 2025

Front-End Developer & UI Designer

Dhaka, Bangladesh

- Developed front-end components using HTML5, CSS3, JavaScript, and frameworks like Bootstrap and Tailwind CSS.
- Converted Figma designs into responsive, pixel-perfect HTML/CSS layouts.
- Ensured responsiveness and compatibility across mobile, tablet, and desktop devices.
- Used Git and GitHub for version control in a professional, collaborative environment.

Research Projects

- **Research & Publication: Structured Prompting and Multi-Agent Reasoning for Open-Source Financial Sentiment Analysis** | Pytorch, Pytorch, Numpy, Pandas, Hugging Face, Colab
 - Co-authored a research paper proposing a novel framework for analyzing financial sentiment from statements using multi-agent architecture and open-source LLM models.
 - The paper was successfully submitted to the IEEE 2nd International Conference on Computing, Applications and Systems (COMPAS 2025) on July 31, 2025.
 - My contributions included designing the core agentic logic, conducting experiments, and writing the Abstract and Methodology.

- **NeurIPS 2025 Challenge: Time-Series Denoising with Deep Learning** | *Pytorch, Pytorch, Numpy, Pandas, Hugging Face, Kaggle*
 - Actively competing in a premier scientific challenge hosted in collaboration with NeurIPS, University College London (UCL), and the European Space Agency (ESA).
 - Developing and training 1D CNN and Transformer models in PyTorch to remove cosmic ray noise from real-world planetary signal data.
- **Independent Research: Foundational Language Model with State-Space Architecture** | *Pytorch, Pytorch, Numpy, Pandas, Hugging Face*
 - Conducting independent research into building a foundational Large Language Model from scratch in PyTorch, focusing on efficient, non-Transformer architectures like Mamba/S4.
 - This ongoing project involves a deep dive into cutting-edge deep learning theory, model architecture design, and high-performance computing practices.

Technical Skills

Frameworks & Tools: Git, GitHub, Docker, React.js, Node.js, FastAPI, MySQL, PostgreSQL, CrewAI, LangGraph

Languages: HTML, CSS, JavaScript, Python, Java, PHP, SQL

Core Concepts: Deep Learning, Large Language Models (LLMs), Agentic AI, Signal Processing, Transformers, CNNs, State-Space Models (SSM), Natural Language Processing (NLP), REST APIs