Al-Nafis Chowdhury | Software Engineer

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Professional Profile

I am a master's graduate from Queen Mary, University of London with a software engineering background and experience in data science. My technical skills include experience in both front-end and back-end development using Python, React.js, JavaScript, SQL, Spark, and Java. I have excellent analytical skills and can analyse complex data to derive useful insights for business decisions in an asynchronous environment.

Education and Qualifications

➢ **Queen Mary, University of London** – Date attended: Sept 2022 – Jan 2024
  o **MSc Big Data Science – Masters Award: (_Merit)_**

University Modules Completed: – Neural Networks and Deep Learning**,** Data Mining**,** Machine Learning**,** Natural Language Processing**,** Applied Statistics**,** Big Data Processing and Risk and Decision-Making for Data Science and AI.

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➢ **University of Westminster –** Date attended: Oct 2019 – July 2022
  o **BEng Software Engineering – Bachelors Award: _(First Class Honours)_**

University Modules Completed: – Object Oriented Programming (70%), Database Systems (80%), Client Server Architecture (70%), Mobile Application Development (93%), Algorithms (74%), Advanced Analytics (70%), Swift Programming (82%).

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➢ **Valentines Sixth Form –** Date attended: Sept 2017 – July 2019
  o **Business Studies –** Grade: **_(Distinction, Merit_)**
  o **Information Technology –** Grade: **_(Distinction)_**

Work Experience

IT Technician, Personaa – London   June 2019 – Present

As an IT Technician, I managed spreadsheets for tracking expenses, wages, and stock. I scheduled reservations and employee shifts using in-house software and collaborated with a cross-functional team of engineers, and technicians to provide technical support to end-users via various channels. I also configured network devices, troubleshooted connectivity issues, and managed customer data using tools like MS Access.

Key Responsibilities
- Provide technical support to end-users, either in person, over the phone, or via remote assistance
- Configure and maintain network devices such as routers, switches, and firewalls
- Troubleshoot network connectivity issues
- Maintain data management of customers through MS Access

Key Achievements
- Reduced system downtime and increased user satisfaction by solving technical issues effectively.
- Implemented a streamlined spreadsheet system, significantly enhancing accuracy and efficiency in tracking business expenses, employee wages, and product stock.
- Designed, tested, and optimised proactive measures to enhance network security, minimising vulnerabilities and ensuring a more robust and secure IT infrastructure.

Projects

Retinopathy Diabetic Detection (Thesis) – Utilised transfer learning and deep learning with pre-trained CNNs ResNet50 architecture to classify DR. Optimised by the AI trained from the Kaggle Dataset.

- Stochastic Gradient Descent (SGD)
- Adjusted Learning rate and weight decay among the various hyperparameters
- Image Augmentations and regularisation

Final Year Project – A mobile application for Android devices enables users to set a destination and receive directions. It has built-in task management that allows for simultaneous use in navigation.

- Leveraged Google's Navigation API to optimise route planning and enhance navigation capabilities via Graph Hopper API.
- Designed and Implemented Firebase real-time cloud-hosted database for efficient user account storage and data management, optimising retrieval and enhancing system performance.

Audio Classification Algorithm – Built a machine learning pipeline that takes as an input an audio segment and predicts whether the audio segment has been recorded indoors or outdoors.

Awards and Additional Achievements

- ➢ **European Computer Driving Licence** and Awarding Body **_BCS_**   July 2017

- ➢ **English as 2nd Language** and Awarding Body **_UCLES_**   July 2017

- ➢ **Data Analytics Consulting Virtual Internship** and awarding body **_KPMG_**   July 2020

- ➢ **Software Engineering Virtual Internship** by awarding body **_JPMorgan & Chase_**   July 2021

Skills and Languages

Skills: Python – Java – React.js – MS Office – JavaScript – SQL Database – Tailwind – Git – MATLAB
Languages: English – Italian – French – Bengali

Hobbies and Interests

Modding/Scripting: I have a passion for modding video games, which allows me to explore my creativity and learn new skills. I've created mods for several games, including FiveM, CS-GO, Skyrim, and Minecraft, using a combination of programming languages such as C++, Source SDK, Unreal Engine, Creation Kit, and Java.

Travelling: My time living in Canada, Italy, Bangladesh, and England has enriched me both personally and professionally. Exposure to diverse cultures and environments has fostered my creativity and open-minded perspective, making me effective in cross-cultural settings.

References Available Upon Request