ASIF AHAMED SIDDIQUE

Computer Science Graduate | AI & Software Development

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Chattogram, Bangladesh — Open to Remote Work

PROFILE

BSc (Hons) Computer Science with Artificial Intelligence graduate from the University of Nottingham with hands-on experience in AI-driven applications, full-stack web development, and intelligent automation tools. Skilled in Python, JavaScript, and modern frameworks, with a track record of delivering scalable, efficient solutions in both academic and collaborative project settings. I am passionate about applying technology to solve real-world challenges and looking to gain experience in a real-world professional environment.

TECHNICAL SKILLS

Languages: Python, Java, C++, C, JavaScript, HTML, CSS, Kotlin
Frameworks & Libraries: React, Laravel, PyTorch, TensorFlow, Firebase
Tools & Platforms: Git, Docker, Linux, VS Code, MySQL
Specializations: Machine Learning, Web Development, Natural Language Processing, API Integration

PROJECTS & EXPERIENCE

Final Year Dissertation: From Normals to Mesh – Evaluating Orientation Techniques in High-Fidelity Vascular Surface Reconstruction (Python, PyVista)

- Researched and implemented two pipelines (PCA+SDF and Geodesic-PCA+MST) to improve normal estimation accuracy for vascular mesh reconstruction.
- Utilized Screened Poisson Surface Reconstruction to generate high-fidelity 3D vascular surfaces.
- Conducted quantitative and qualitative evaluations to compare accuracy and smoothness of reconstructed models, supporting advancements in medical visualization.

Interactive Website with Admin Dashboard (React, Laravel, MySQL)

- Developed a full-featured website with an admin panel in collaboration with SEATRU Malaysia.
- Implemented user authentication, data visualization, and dynamic content management.
- Reduced backend data retrieval time by 30% through optimized queries and API handling.

Intelligent Query-based Web Crawler (Python, BERT, Flask)

- Designed an intelligent web crawler capable of query understanding using BERT-based NLP and a QA model.
- Achieved improved snippet delivery speed and accuracy with increased dataset size.
- Automated pipeline for crawling, filtering, and ranking results, enhancing retrieval efficiency.

Budgeting Android App (Kotlin, Firebase)

- Created a personal finance management app with expense tracking and budget analytics.
- Integrated Firebase for real-time cloud storage and secure authentication.

EDUCATION

BSc (Hons) Computer Science with Artificial Intelligence — University of Nottingham, Malaysia | 2021–2025

Higher Secondary Education — Notre Dame College, Dhaka, Bangladesh | 2018–2020

REFERENCES

Available upon request