Ariyan Jahangir

Software Engineer

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PROFILE

I am a .NET (C#) Based Software Engineer at A4Aero Limited with a strong foundation in business logic, and a passion for Machine Learning. I have contributed to multiple research papers during my university years and professional career. I prioritize writing efficient, high-quality code and leverage AI when it adds value to performance and productivity.

PROFESSIONAL EXPERIENCE

A4Aero Limited , *Full Stack Assistant Software Engineer* 12/2024 – Present | Dhaka, Bangladesh (Remote)
Led the development and enhancement of travel technology platforms through legacy system modernization, end-to-end OTA and airline API integrations, and scalable API design. Built secure payment processing solutions and authentication systems while delivering full-stack web applications using modern technologies. Produced comprehensive API documentation, facilitated partner integrations, and ensured high-performance, maintainable solutions that supported both B2B and B2C travel operations.

Accelx Inc. , *Junior Software Engineer* 02/2024 – 11/2024 | Dhaka, Bangladesh
Designed and built real-time video streaming systems capable of handling multiple concurrent streams with low-latency performance. Integrated hardware-accelerated video processing and OpenCV-based analytics to deliver efficient computer vision capabilities. Deployed applications using containerized infrastructure, enabling scalable and consistent environments across development and production. Ensured system stability and performance through rigorous testing, debugging, and continuous optimization efforts.

Ericsson , *Documentation Engineer* 05/2023 – 11/2023 | Dhaka, Bangladesh
Supported telecom infrastructure operations through vendor coordination, site survey management, documentation, report verification, and material tracking. Developed practical knowledge of communication systems, transmission architecture, and stakeholder management while ensuring efficient project execution.

American International University-Bangladesh , *Undergraduate Research Assistant* 05/2022 – 08/2022 | Dhaka, Bangladesh
Prepared and processed datasets for machine learning and deep learning applications, ensuring data quality and reliability. Applied deep learning concepts to implement, train, and evaluate neural network models for research-driven projects. Contributed to research activities, including experimentation, analysis, and the development of academic publications.

EDUCATION

Bachelor of Science, Computer Science and Engineering, 01/2019 – 03/2023 | Dhaka, Bangladesh
American International University-Bangladesh

SKILLS

Technical Proficiency
Programming Languages: C#, C++, JavaScript, TypeScript, Python
Web Technologies: HTML5, CSS3
Scripting & Automation: Bash, Shell Scripting
Frameworks & Platforms: .NET, Node.js, NestJS, Next.js
Databases: MongoDB, SQL
Development Tools: Git, Docker, Postman
Productivity & Office Tools: Microsoft Excel, Word, PowerPoint, Access

Engineering Proficiency
Software Development Life Cycle (SDLC), Requirements Analysis, System Design, API Architecture & Integration, Testing & Quality Assurance, Agile/Scrum Methodologies, Sprint Planning, Issue Tracking, Code Reviews, Software Deployment, and Application Maintenance.

AWARDS

Magna Cum Laude, *American International University-Bangladesh*
19/03/2023
Awarded for Obtaining a CGPA of 3.94 throughout the Bahcelors Program

Dean's List Award, *American international University-Bangladesh*
19/03/2023
Enlisted 6 times in the Dean's List throughout the Bachelors Program

REFERENCES

D M Imtiaz Ul Amin , *Senior Account Manager,* Ericsson
imtiaz074@gmail.com, +880 1613-142805

Alimul Hoque , *Lead Architect,* Advanced Micro Devices
ahoquegm@gmail.com

PUBLICATIONS

Blockchain based Agriculture Using the Application of UAV and Deep Learning 27/05/2023
Technique: Alexnet CNN , *Malaysian Journal Of Science And Advanced Technology*
Published research on smart agriculture using UAVs and AlexNet CNN to detect crop diseases in Bangladesh. Integrated blockchain to improve supply chain management, enhancing crop protection and data-driven farming decisions.

Intelligent Software Bug Prediction: An Empirical Approach , *IEEE Xplore* 21/03/2023
Published research on software bug prediction, comparing six ML algorithms and a deep learning sequential neural network using NASA's PROMISE dataset. Demonstrated that SVM outperformed other models, while feature selection significantly improved prediction accuracy.