

# Ariyan Jahangir

## Software Engineer

✉ ariyanjahangireng@gmail.com ☎ +8801817274124 📍 Dhaka, Bangladesh

🌐 Ariyan Jahangir 🔄 Ariyan-2007 🏠 Ariyan Jahangir



I am a .NET (C#) 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

---

12/2024 - Present  
Dhaka,  
Bangladesh (Remote)

### Full Stack Assistant Software Engineer, A4Aero Limited ☑

- Designed and developed scalable **.NET 8 APIs** and Angular applications, implementing **Clean Architecture**, **SOLID principles**, and robust **business logic**.
- Integrated diverse **third-party systems** including GDS, airline APIs, **payment gateways** (Stripe, Chip, AMBank, SSLCommerz), and OTA platforms for seamless **B2B/B2C operations**.
- Worked extensively with **REST**, **GraphQL**, and **XML-based SOAP APIs** to enable flexible, high-performance service communication.
- Delivered **secure authentication solutions** including Google OAuth and Meta Auth, ensuring reliable user access and identity management.

02/2024 - 11/2024  
Dhaka, Bangladesh

### Junior Software Engineer, Accelx Inc. ☑

- Developed a Python-based system using **WebSockets** to receive and process **RTSP streams** on Virtual Machines and **NVIDIA Jetson** devices, leveraging hardware acceleration for optimized real-time video processing.
- Containerized applications with **Docker** for consistent, portable deployment across environments and Implemented **Multi-Threading** to efficiently process multiple IP camera streams and utilized **OpenCV** for real-time video analytics.
- Automated ML workflows on servers using **Shell** and **Python** scripts, improving operational efficiency and Integrated **ML Models** with Django backends via WebSockets and added **Analog Camera Support**.
- Built & Optimized **Weapon Detection Model** performance in the **AccelEye Project** with the help of **Pytorch**.

05/2023 - 11/2023  
Dhaka, Bangladesh

### Documentation Engineer, Ericsson ☑

- Managed **documentation, reporting, and asset tracking** using Excel (live trackers, pivot tables, material verification, and work order management) to ensure operational accuracy and efficiency.
- Coordinated **site surveys and telecom infrastructure projects** through vendor management, including POC coordination, field engineer oversight, and follow-up protocols.

05/2022 - 08/2022  
Dhaka, Bangladesh

### Undergraduate Research Assistant, American International University-Bangladesh ☑

- Collected, sorted, and analyzed data, implementing **Deep Learning (CNN) prediction models** in Jupyter Notebook.
- Published a **journal paper** based on internship research and model implementation.

## PUBLICATIONS

---

- 27/05/2023      **Blockchain based Agriculture Using the Application of UAV and Deep Learning 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.
- 21/03/2023      **Intelligent Software Bug Prediction: An Empirical Approach,**  
*IEEE Xplore* [↗](#)  
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.

## EDUCATION

---

- 01/2019 - 03/2023      **Bachelor of Science, Computer Science and Engineering,**  
Dhaka, Bangladesh      *American International University-Bangladesh* [↗](#)

## AWARDS

---

- 19/03/2023      **Magna Cum Laude,** *American International University-Bangladesh*  
Awarded for Obtaining a CGPA of 3.94 throughout the Bachelors Program
- 19/03/2023      **Dean's List Award,** *American international University-Bangladesh*  
Enlisted 6 times in the Dean's List throughout the Bachelors Program

## INTERESTS

---

Swimming

Travelling

Gaming

Reading

Calisthenics

Collecting

## SKILLS

---

### Technical Proficiency

- Language → C#, C++, JS, TS, Python
- Script/Markup → HTML, CSS, Shell, Bash
- Office → Excel, Word, Powerpoint, Access
- Framework → .NET, NestJs, NextJs, Astro
- Tools → Git, Docker, Postman

### Engineering Proficiency

- Planning Software Development Life Cycle
- Requirement Analysis and System Design
- API Design, Integration and Testing
- Sprint Planning in Agile Method
- Software Deployment and Maintenance

## LANGUAGES

---

English



Bangla



## 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