

# Asrar Ahmed

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## EXPERIENCE

### Cloud and DevSecOps Engineer

Jan 2025 – March 2025

Dhaka, Bangladesh

*Internship · Brotecs Technologies (formerly Stitel Networks LLC.)*

- Collaborating with development and operations teams to automate and streamline the deployment processes, ensuring efficient and secure code releases.
- Integrated ZKTeco biometric devices with HRMS systems using Django and Python libraries, enabling real-time attendance tracking.
- Participating in embedded system development projects, focusing on integrating software applications with hardware components for optimized performance.

## TECHNICAL SKILLS

**Languages:** SQL (Postgres, MySQL), Swift, Java, Python, C/C++, Shell (Bash), JavaScript, HTML/CSS

**Data Skills:** PowerBI, Tableau, Excel, SPSS, ETL Processes, Dashboard Development

**Developer Tools:** Git/GitHub, Postman, Docker, Cisco Packet Tracer, VS Code, PyCharm

**Libraries:** TensorFlow, PyTorch, pandas, NumPy, Matplotlib

**AI/ML:** RAG, LangChain, Computer Vision, Gradio

**OS:** Fedora, Ubuntu, Windows

## RESEARCH

### Single and multi-view 2D image processing for enhanced 3D object reconstruction

*BRAC University*

Jan. 2020 – May 2024

CGPA: 3.72/4.0

- Developed SMATNet, a novel framework for converting 2D images into detailed 3D models using CNNs.
- Constructed a custom human-based 3D dataset using Intel RealSense D435 depth camera.
- Outperformed individual models with higher accuracy through ensemble methods.

## EDUCATION

### BRAC University

Jan. 2020 – May 2024

*B.Sc in Computer Science and Engineering*

CGPA: 3.72/4.0

## PROJECTS

### Data Analysis Dashboard | PowerBI, Excel

- Designed an interactive PowerBI dashboard analyzing survey data across 41 countries using PowerBI.
- Visualized key metrics: salaries, programming preferences, job satisfaction, and entry difficulty.
- Designed another interactive Excel dashboard to analyze Bangladeshi university data by year, division, type, and specialization.
- Enhanced data analysis and presentation through intuitive and visually appealing design.

### AI Background Remover | Python, Flask, React

- Developed a simple web application to remove backgrounds from images.
- Automated deployment with GitHub Actions CI/CD.

### Metadata generation bot | Python, Telegram Bot API

- Created a bot which can generate metadata from user inputs and generate human-like response.
- Built with Python and Telegram Bot API, utilizing asynchronous programming for efficient handling of user requests.

## HONORS & ACHIEVEMENTS

- Full Passer in ITEE Level-2, Fundamental IT Engineer (FE).
- Received merit based scholarship on academic results in the 5th semester.
- Placed on VC's List due to academic performance in the 5th semester.
- Achieved Merit Position 1 in the JNU Admission Test for M.Sc. in Computer Science, Winter 2025.

## CERTIFICATIONS

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- Ranked in the Top 10% in a public SQL test on TestDome 
- Certificate of Participation in problem solving session - ARCED Foundation 
- Certificate of Participation in a 30 days AI Master class - Pantech Solutions 
- Python Certification on Kaggle 
- Participated in Code Samurai Preliminary 2024

## REFERENCES

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### **Dr. Md. Ashraful Alam**

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