

AHSAN HASIB

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CAREER SUMMARY

Machine Learning | DevOps | Backend Developer | IoT | Frontend Developer | Flutter

- More than two years of hands-on experience with backend
- Machine Vision using PyTorch, OpenCV, YOLO, DeepSORT
- IoT Backend development with MQTT and MongoDB And Mysql

EDUCATION

BSc In Computer Science and Engineering (Final Year)

2024

BRAC University, Bangladesh

KEY SKILLS

- Docker
- CI/CD
- PyTorch
- JavaScript, Go
- Python, Rust
- Flutter Dart
- Unit Testing
- Debugging
- Technical Documentation

TECHNICAL SKILLS

Software Development Javascript, Python, Rust, Dart

Development Tools Docker, PyTorch, OpenCV, Insomnia, Django, SvelteKit, Svelte, Flutter, Tailwind CSS, Nginx,

Project management GIT - Version Control, Scheduling & Time management, Team Work

Projects

- **QR-Bee - Unifon,**

Road 13, Dhanmondi Dhaka-1209, Bangladesh

It's a Subscription-based QR code management platform to manage ads, Digital Vcard management, Portfolios and many more. It was a freelanced project with one of my mate, I have implemented QR designing Including the patterns, and eyes, colors, frames & templates, qr scan analytics, dynamic QR for Social Media, AppStore, File, MP3, MultiUrl, Vcard, Payment gateway and QR codes management. Project Link

- Technology used

- Backend: Express, Sveltekit, Pocketbase
- Frontend Framework: Svelte, TailwindCSS
- Database: sqlite3
- Integration: Google Oauth, SSLcomerz, TinyMCE

- **Realtime Transformer Based Violence Detection (University Thesis)**

During my undergraduate thesis, we proposed and made a deep-learning model that harnesses the power of transformer models to detect various sorts of violence in surveillance cameras. It can identify and classify violent and non-violent in 14 classes including normal video in real-time.

- Technology used
 - Framework: PyTorch
 - Monitoring: Tensorbaord
 - OpenCV
 - Training: CUDA

- **Tu Smart**

Tu Smart is a cross-platform(IOS & Android) app for connecting preparatory IoT devices and controlling them from anywhere from the from world. This allow user to schedule tasks and set timers. Moreover, users can view analytics of their devices like operating metrics and power usage.

- Technology used
 - Communication: MQTT, Socket.io, BLE
 - Frontend Framework: Flutter, Material UI
 - Architecture: MVVM

- **Tu Compressor Manager**

Developed a cross-platform app for a BLE-enabled compressor testing system. The app allows users to configure compressor settings (frequency, duty cycle, PID values), conduct tests, and generate detailed CSV reports of inputs and outputs. Demonstrated expertise in BLE communication, data logging, and user-centric design.

- Technology used
 - Communication: BLE
 - Frontend Framework: Flutter, Material UI
 - Architecture: MVVM

- **MaktroPay - MakTro**

House:01, Road:04, Bosila city, Mohammadpur, Dhaka-1207, Dhaka, Bangladesh
MaktroPay maintains user and staff payments under MakTro. Users can pay for their subscriptions via this web portal. Additionally, the management can pay the agents using this portal. This also allows management to monitor the analytics of Credit/Debit and other important information.

- Technology used
 - Backend: Express, Sveltekit, Pocketbase
 - Frontend Framework: Svelte, TailwindCSS, Shadcn
 - Database: sqLite3
 - Integration: Bkash PGW

- **Smart Cane for Visually impaired person**

This project uses Machine Vision to identify humans and cars and send the information using audio to the user. It also includes Optical Character recognition to read and convert to audio. Moreover, It can let the user know his location.

- Technology Used
 - OpenCV
 - Tesseract OCR Engine

Extra Curricular Activities

- Apprentice at Brac University Robotics Club Robu
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LANGUAGE SKILLS

Bengali	Native proficiency
English	Professional proficiency
Hindi, Urdu	Verbal (listening and speaking) communicative proficiency

REFEREES

MD Ahsan Habib

Embedded System Engineer

Maple IT Solutions.

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Relation with the referee: Personal

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Relation with the referee: Professional Contact

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Proprietor

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