

# MD Moshir Rahman

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## EXPERIENCE

### Software Engineer

May 2022 – Aug 2023

SAMAHAR

Dhaka, Bangladesh

- Developed and deployed backend services in Linux environments using CLI tools
- Implemented time-based backend task scheduling using Cron jobs, ensuring reliable execution of batch operations in a Linux environment.
- Designed and optimized backend data models and SQL queries, reducing database response times from 2056 ms to 437 ms and improving system throughput.
- Leveraged MySQL migration tools for version-controlled database management, enabling seamless rollbacks and safeguarding against data loss.
- Built a backend analytics pipeline to ingest, store, and query high-volume user interaction data using PHP and MySQL.
- Developed and maintained RESTful backend APIs with authentication (OAuth/SSO), focusing on performance, security, and error handling, which reduced API overhead and cut costs by around 5%.
- Participated in peer code reviews and contributed to technical documentation to maintain code quality and team knowledge sharing.

## EDUCATION

### Flinders University

2023 – 2025

Master's of Science in Computer Science

### East West University

2017 – 2021

Bachelor of Science in Computer Science & Engineering

## SKILLS

**Languages:** Python, C, C++, PHP, MySQL, JavaScript

**Database:** MySQL, PostgreSQL

**Frameworks:** FastAPI, Laravel, Node.js

**Tools:** Git, GitHub, VS Code, Postman, Docker & Linux CLI

**OS:** Windows, Ubuntu, Debian & MacOS

**Software Engineering Practices:** Unit Testing, SDLC, Version Control, REST APIs & Agile.

## PERSONAL PROJECTS

**Safety-AI Dashboard** | *Python, OpenCV, FastAPI, React, PostgreSQL, Docker, CI/CD Pipeline, n8n, YoloV8*

- Developed a full-stack AI-powered threat detection system using React (frontend) and FastAPI (backend) with YOLO-based real-time image and video analysis.
- Containerized backend and frontend services using Docker, enabling consistent local development, simplified deployment, and environment isolation.
- Implemented automated CI pipelines using GitHub Actions for backend testing (Pytest) and frontend production build validation, ensuring stable deployments.
- Integrated workflow automation using n8n to trigger real-time SMS alerts via Twilio when high-risk detections occur.

**Parking Space Detector** | *Python, OpenCV, NumPy,*

- It is an OpenCV program that detects free space in the parking spots.
- Used edge detection to identify the edges of a car.
- Depending on the pixel density of the edges it predicts whether or not the space is available.

**Job Finder** | *PHP, HTML, CSS, JavaScript, MySQL*

- A web application where users can get recommendations for jobs depending on their level of skill set
- Users can search for jobs and see the whole job post.
- Users are able to create their own profile and add their basic skills so that the recruiter can view.
- Users can send their CV to the recruiter in PDF format.