Rafit Alavi

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Career Summary

Software Engineer skilled in **full-stack web development, API design, and scalable systems**. Proficient in **Python, Django, React, and SQL**, with a strong problem-solving background (180+ coding challenges solved). **Eager to learn and adapt to new technologies** to build efficient and impactful solutions.

Professional Experience

Jr. SQA Engineer   Nov 2024 – Present
Bangla Puzzle Limited, Dhaka

- Built a **Python-based DICOM file uploader** for medical imaging; automated parsing and uploading workflows.
- Developed a **Bijoy–Unicode Text Converter** in Python to transform Bangla text from Bijoy to Unicode encoding, enabling seamless localization across applications. (Live)
- Developed a **bowling hand angle detection system** for the **Bangladesh Cricket Board (BCB)** using computer vision to analyze illegal bowling actions.
- Designed APIs for a **real-time multiplayer Ludo game** (Laravel backend, Unity frontend), ensuring low-latency communication.

Technical Skills

Programming/Frameworks: Python (Django, Flask, DRF), JavaScript (React), SQL (MySQL, PostgreSQL, SQLite),
Web Development: REST API, Full-Stack Development, Responsive UI/UX
Tools: Git/GitHub, Docker, Postman, Linux
Problem Solving: 180+ challenges (LeetCode, Beecrowd, Code360)

Certifications

- Python & Django REST API Bootcamp — Udemy
- Agile Project Management — hp LIFE
- Master Python Web Scraping — Udemy
- Docker Basics — Udemy
- Introduction to JMeter — Simplilearn

Education

B.Sc. in Computer Science and Engineering   Feb 2019 – May 2024
Mymensingh Engineering College (University of Dhaka)   GPA: 3.38/4.0

Projects

Dynamic Blog Website – Django & Bootstrap   (Live)
Built a fully dynamic blogging platform with custom admin panel, SEO-optimized sitemap, dynamic SMTP email system, and responsive UI. *Django, Python, Bootstrap*

Team Task Management System – Django REST Framework   (Code)
Designed a scalable API with custom permissions, role-based access control, and OAuth2 authentication. *Django REST Framework, PostgreSQL*

DevIn – Networking App for Developers   (Live)
Built a social networking platform for developers to connect, collaborate, and showcase projects. *Django, Python*

BookPicker – Book Search & Wishlist   (Live)
React app using Gutenberg API with filtering, pagination, and wishlist. *React, JavaScript, Axios*

Publication

i-Glove: An Intelligent Glove System Based on Deep Learning to Support Deaf-blind Individuals in Recognizing Banknotes
IEEE RAAICON 2024. DOI: 10.1109/RAAICON64172.2024.10928364

Feature-Enhanced Rainfall Prediction in Bangladesh Using Statistical and Machine Learning Models Integrated with Explainable AI
2025 2nd International Conference on Next-Generation Computing, IoT and Machine Learning (NCIM).
DOI: 10.1109/NCIM65934.2025.11159999

References

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