Safaet Jaman Arman

Software Developer Intern — Backend Developer (Python/Django)

📍 Panchlaish, Chattogram, Bangladesh ✉ esafaetjaman@gmail.com ☎ +8801306726612

in linkedin.com/in/safaet-jaman ⓖ github.com/safaet 🌐 Portfolio

Education

B.Sc. in Computer Science and Engineering (CSE) — **Expected Graduation: [Year]**

International Islamic University Chittagong (IIUC), Bangladesh — *CGPA: [X.XX/4.00]*

Professional Experience

Junior Software Engineer (AI/ML) — **July 2024 – Present**

Code Owls — *Chattogram, Bangladesh*

- Designed and implemented **automated CV & cover letter generation** using LangChain and prompt engineering, reducing generation time by 70%
- Built and deployed **FastAPI-based REST APIs** serving 1000+ daily requests with 99% uptime
- Developed **A/B testing pipelines** using Python to optimize AI response quality, improving user satisfaction scores by 35%
- Integrated **TensorFlow models** for career recommendation features used by 500+ active users
- Collaborated with cross-functional teams (product, design) using Agile methodologies
- **Tech Stack:** Python, LangChain, FastAPI, TensorFlow, AWS, PostgreSQL, Docker

Featured Projects

Antimicrobial Resistance Prediction | *Python, Scikit-learn, Pandas, Jupyter, ML* ⓖ

- Developed machine learning models predicting antibiotic resistance with **92% accuracy**
- Processed and analyzed **10,000+ bacterial genome sequences** using pandas and NumPy
- Implemented and compared **Random Forest, Logistic Regression, and SVM** classifiers
- Published research paper in **IJCSAI 2024** journal
- Created data visualization dashboards showing feature importance and model performance metrics

CricketInsight - Sports Analytics Platform | *Django, PostgreSQL, REST API, HTML/CSS* ⓖ

- Built **full-stack cricket analytics app** with Django backend and responsive frontend
- Designed **RESTful APIs** for match data, player statistics, and real-time score updates
- Implemented **PostgreSQL database** with optimized queries handling 500+ concurrent users
- Integrated **web scraping** using Beautiful Soup for live match data aggregation
- Deployed on cloud platform with CI/CD pipeline using Docker

DevSearch - Developer Portfolio Platform | *Django, DRF, PostgreSQL, AWS* ⓖ

- Developed **developer networking platform** with profile management and skill-matching
- Built **custom authentication system** with JWT tokens and role-based access control
- Implemented **search and filter functionality** using Django ORM and PostgreSQL full-text search
- Created **messaging system** for developer collaboration and deployed on **AWS EC2**

School Management System | *Django, React, PostgreSQL, REST API* ⓖ

- Developed **full-stack application** with Django backend and React frontend
- Implemented **CRUD operations** for student profiles, attendance, and grade management
- Built **role-based access control** (Admin, Teacher, Student) and protected routes
- Used **Redux** for state management and **Axios** for API integration

House Price Prediction Web App | *Python, Streamlit, Scikit-learn, Pandas* ⓖ ⤴

- Built **interactive web application** using Streamlit for real-time house price predictions
- Trained **Linear Regression and Random Forest** models on 5000+ housing records
- Achieved **R² score of 0.87** through feature engineering and hyperparameter tuning

Technical Skills

Languages: Python, C/C++, SQL, JavaScript, HTML5, CSS3
Backend Frameworks: Django, Django REST Framework, FastAPI, Flask
Frontend: React (Basic), HTML5, CSS3, JavaScript, Bootstrap
Databases: PostgreSQL, MySQL, SQLite
AI/ML Libraries: TensorFlow, Scikit-learn, Pandas, NumPy, LangChain
Cloud & DevOps: AWS (EC2, S3), Docker, Git, GitHub Actions, Linux (Ubuntu)
Tools: Jupyter Notebook, Postman, VS Code, LangSmith, Streamlit

Awards & Achievements

- **4th Place** – IIUC Intra-University Programming Contest (Autumn 2022)
- **Ranked #1003** – Kaggle Titanic Machine Learning Competition (Top 10%)
- **Pull Shark x2** – GitHub Achievement for open-source contributions
- **Published Research** – IJCSAI 2024 (Antimicrobial Resistance using ML)

Problem Solving Profile

- **Competitive Programming:** Solved **500+ algorithmic problems** (Arrays, Graphs, DP, Greedy, Binary Search)
- **Active Profiles:** LeetCode — Codeforces — HackerRank — StopStalk — Kaggle

Publications

- **"Predicting Antimicrobial Resistance using Machine Learning"** – *International Journal of Computer Science and Artificial Intelligence (IJCSAI), 2024*
- Collected and unified datasets from multiple sources, applied ensemble ML models (Random Forest, Gradient Boosting), achieving **15% higher accuracy** compared to previous approaches

Additional Information

Areas of Interest: Backend Development, Machine Learning, RESTful API Design, Data Science, Healthcare AI
Open to: Software Developer Intern, Backend Developer Intern, AI/ML Intern roles
Languages: English (Fluent), Bengali (Native)
Availability: Immediate — Open to relocation