SAFAET JAMAN ARMAN

Software Developer Intern — Backend Developer (Python/Django)

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Education

B.Sc. in Computer Science and Engineering (CSE)   **Expected Graduation: [2026]**
International Islamic University Chittagong (IIUC), Bangladesh   *CGPA: [3.00/4.00]*

Professional Experience

Junior Software Engineer (AI/ML)   **July 2024 – Present**
Code Owls   *Chattogram, Bangladesh*

- Developed **AI-driven workflows** and **LLM pipelines** using **LangChain** and **Prompt Engineering** for automated content generation, reducing generation time by 70%
- Architected and deployed high-performance **FastAPI microservices** for AI applications, handling 1000+ daily requests with 99% uptime
- Implemented **robust API design** and **A/B testing pipelines** to optimize AI response quality, improving user satisfaction scores by 35%
- Integrated **TensorFlow models** and **Redis caching** for real-time career recommendation features used by 500+ active users
- Collaborated with cross-functional teams using **Agile methodologies** and **Git/GitHub workflows**
- **Tech Stack:** Python, FastAPI, LangChain, PostgreSQL, Redis, Docker, AWS

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

Additional Information

Areas of Interest: AI Voice Agents, Backend Microservices, LLM Development, System Architecture
Open to: Python Developer Intern, AI Engineer Intern, Backend Developer Intern
Languages: English (Fluent), Bengali (Native)
Availability: Immediate — Open to relocation