

KH. TANJIM ASHRAF

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SOFTWARE ENGINEER

Dedicated and highly skilled software engineer with 4 years of hands-on experience in developing robust web applications and implementing efficient system designs. Proficient in utilizing a wide range of technologies & architectures, including Django, Django Rest Framework, Flask, FastAPI, WebSocket, webRTC, Pub/Sub systems, Angular, TypeScript, Rust and more. Adept at deploying applications using Nginx, uWSGI, Daphne servers, and implementing CI/CD pipelines with Jenkins. Experienced working with containerization & running multiple containers using Docker & Docker Compose accordingly. Experienced in data analysis, wrangling, file manipulation using Python, and building ETL pipelines with Apache Airflow.

STRENGTHS AND EXPERTISE

Django • Angular • FastAPI • Flask • WebSocket • webRTC • TypeScript • NGINX • uWSGI • Gunicorn
• Daphne • Redis • Pandas • Jenkins • MySQL • Oracle • PostgreSQL • ClickHouse • Amazon EC2 •
Amazon RDS • Amazon S3 • Amazon Route 53 • Docker • Docker Compose • Apache Airflow • Linux •
Slack • Atlassian Jira

PROFESSIONAL EXPERIENCE

DOER Services PLC Software Engineer

February 2023 - April 2024

- Build system designs & MVPs with the collaboration of a team of 3-4 members.
- Report to tech lead to understand the business requirements.
- Build pub/sub system using Django, DRF, Angular.
- Integrate web applications with various ML models efficiently.
- Perform EDA using Pandas to facilitate NLP applications to mitigate outliers from augmented datasets.
- Establish immaculate integration of Django apps with other existing apps built with JAVA, Node.js & PHP.
- Understand & contribute in different stages of the Software Development Life Cycle.
- Mentor 2-3 developers in the team. Participate into scrum meetings & retrospective discussions.
- Communicate with UI/UX designers & testing teams to solve any challenges the team might be facing as a whole.
- Collaborate seamlessly with the Machine Learning team, contribute in the R&D & facilitate integration of ML models in the applications.
- Scrutinize existing system architecture & modernizing monolithic applications into agile microservices
- Applied multi-tenant database architecture to decouple monolithic dependency of databases by using PostgreSQL, MongoDB & ClickHouse.
- Containerize multiple applications, ML models & ensure seamless communication between them.
- Deploy large scale applications build with Django, Angular & different ML models on AWS as well as managed Linux servers.
- **Paradigms/Methodologies:** Scrum/Agile, REST Principles, MVC Pattern, Object-oriented Programming, Asynchronous Programming, AngularJS Styleguide.
- **Tech Stack:** Django, DRF, JWT, Angular, TypeScript, FastAPI, Flask, WebSockets, Docker, NGINX, uWSGI, Daphne, Redis, Pandas, ClickHouse, PostgreSQL, Linux, AWS, Atlassian Jira

TechForing Ltd
Backend Developer

May 2022 - December 2022

- Build, configure, automate applications & establish CI/CD pipelines using Jenkins and host in Amazon cloud services.
- Build a blog system for the official business website to improve traffic through digital marketing.
- Implement social authentication associated with Google & Twitter.
- Develop & integrate APIs for recruitment management to an exiting in-house HRMS. Implement local vendor SMS service into existing applications.
- Develop multi-domain routing using Django-Hosts & implemented in their official business website.
- **Tech Stack:** Django, DRF, JWT, Flask, Docker, NGINX, uWSGI, Jenkins, Redis, MySQL, Amazon EC2, Amazon RDS, Amazon S3, Amazon Route53, Cloudflare, Slack, Atlassian Jira

Creative IT Institute
Jr. Python Developer

February 2021 - April 2022

- Train over 300 students ensuring proficiency in Django framework including relational database design.
- Build intuitive & practical software solutions using Django, DRF, HTML, CSS, JS.
- Learned regression & classification based ML models.
- Learned EDA, probability & statistics.
- Build a video chatting application using webRTC & websockets.
- **Tech Stack:** Django, DRF, WebSocket, WebRTC, Redis, MySQL, Amazon EC2, Amazon RDS, Pandas, Numpy, Pre-trained ML models (Regression & Classification)

Daffodil Software Ltd
Odoo Developer Intern

January 2020 - June 2020

- Learn Odoo modules, applications and XML focusing primarily on Odoo OpenERP School Management.
- Collaborate with senior developers to analyze requirements, propose solutions, and execute coding tasks.
- Learned the Education Management Information System (EMIS) with practical hands on experience.
- Developed the attendance & performance calculation functionality for an EMIS system.
- **Tech Stack:** Python, Odoo, XML, SQLAlchemy

EDUCATION

University of Greenwich, UK
Bachelor's in Computing

Tejgaon College, Dhaka, Bangladesh
Higher Secondary Certificate

Junior Laboratory High School, Dhaka, Bangladesh
Secondary School Certificate
