

# 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.

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## STRENGTHS AND EXPERTISE

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

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## PROFESSIONAL EXPERIENCE

### DOER Services PLC

February 2023 - April 2024

#### Full Stack Software Engineer

- Build a publish/subscribe system from the scratch using Django, DRF, Angular, integrated with an FAQ based chat bot built using Rasa framework. In summary, the chat bot provides answers based on pre-trained datasets. It prompts the user whether to connect to a support officer if gets any exception based on an alien query. Further resolutions are provided through real-time chatting, if the user proceeds seeking for an officer. The exceptions raised in our system also creates issue ticket to our exiting ticketing management service. The support requests distribution to officers is built based on the combination of channels-breathing (online/offline), tailored priority & locations based algorithms. Collecting feedback from user on support officer's resolution inside the chat room in four different modes, in order to build more advance FAQ based chat bot.
- Ensure all software activities are conducted in accordance with the Software Development Life Cycle.
- Opportunities may exist in refactoring existing code to improve code quality.
- Work to mentor and challenge team members.
- Applied multi-tenant database architecture by using PostgreSQL & ClickHouse databases. The later one is used for online analytical processing into data analytics panel which is built using Django, Angular & Rust (*Under development*).
- Integrations with various ML models & other existing services to meet the business requirements.
- Deployed the system along with other depending services into Linux server. Due to some security constraints, I have to downgrade from HTTPS to HTTP in order to work with asynchronous communication.
- Paradigms/Methodologies: Scrum/Agile Development, REST Principles, MVC Patterns, Object-oriented Programming, Asynchronous Programming, AngularJS Styleguide.
- Stacks: • Django • DRF • JWT • Angular • TypeScript • Rasa • Spacy • Flask • WebSockets • Docker • NGINX • uWSGI • Daphne • Redis • Pandas • FastAPI • Rust • ClickHouse • PostgreSQL • Linux • Atlassian Jira

**TechForing Ltd**  
**Backend Developer**

**May 2022 - December 2022**

- Build, configure, automate the existing applications & their deployments using Jenkins and hosted in Amazon cloud services.
- Build a blog system into their official business website to improve traffic through digital marketing.
- Implemented social authentication associated with Google & Twitter.
- Developed & integrated APIs for recruitment management system to the exiting in-house HRMS which is built with Django and React. Also implemented local vendor SMS service into that system switching from Twilio.
- Developed multi-domain routing using Django-Hosts & implemented in their official business website.
- Stacks: • Django • DRF • JWT • Flask • Docker • NGINX • uWSGI • Jenkins • Redis • MySQL • Amazon EC2 • Amazon RDS • Amazon S3 • Amazon Route 53 • Cloudflare • Slack • Atlassian Jira

**Creative IT Institute**  
**Jr. Python Developer**

**February 2021 - April 2022**

- Train over 300 students to become proficient in Django framework including 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 which is significant among other solutions.
- Started preparing for AWS Solution Architect certification, but it is not completed yet.
- Stacks: • 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 especially Odoo OpenERP School Management.
- Collaborate with senior developers to analyze requirements, propose solutions, and execute coding tasks.
- I have learned the Education Management Information System.
- I have developed the attendance & performance calculation functionality for an EMIS system.
- Stacks: • Python • Odoo • XML • SQLAlchemy

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## **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

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