Huda Rashid

Python Software Engineer

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Profile

Python Software Engineer with 2 years of practical experience, actively involved in advancing SaaS project focused on AI-based machine translation using Python and Django at Guildhawk in Sheffield, UK. Proficient in Elasticsearch for search optimisation for large dataset, showcasing adeptness in managing MySQL databases. Experienced in Azure DevOps for streamlined project handling and deployment. Familiar with WSL (Windows Subsystem for Linux) for smooth cross-platform development. Originally from Malaysia, dedicated to crafting inventive solutions that ensure client contentment and project triumph.

Areas of Expertise

Python - Django - Azure DevOps - MySQL - Streamlit - PostgreSQL - WSL - Elasticsearch - Docker - pandas - FastAPI

Professional Experience

Junior Software Developer *(Guildhawk)* **Sheffield, UK** *09/2023 - present*

- Pioneered a revenue-boosting AI-based machine translation SaaS project using Python and Django, specializing in API creation and third-party integration, with a strong problem-solving and customer-focused mindset to deliver high-quality services.
- Implemented Elasticsearch integration with machine learning algorithms to optimize full-text searches for large datasets, substantially improving search query speed.
- Conducted thorough end-to-end testing, collaborating with cross-functional teams to identify and rectify bugs in the codebase early on, resulting in a smooth deployment process.
- Leveraged Azure DevOps to streamline CI/CD build and release pipelines, integrating Azure App Insights for better monitoring and debugging Django applications, which quickly reduced bug-fixes time.
- Proficient in MySQL databases, especially with Django ORM to write migration scripts that ensure consistent database changes and migrations across development and production environments.
- Successfully delivered impactful results within Agile frameworks in fast-paced environments through adaptability, strong problem-solving skills, and collaboration with the tech team and stakeholders.

Software Developer Placement Student *(Guildhawk)* **Sheffield, UK** *05/2022 - 05/2023*

- Develop an innovative SaaS project based on AI-driven machine translation using Python and Django, substantially increasing the company's revenue streams.
- Utilised Python and pandas to collect and preprocess extensive datasets for insertion into MongoDB.
- Involving in the frontend project using React, TypeScript and Next.js by creating intuitive and responsive interfaces that greatly enhance user satisfaction.
- Carry comprehensive end-to-end testing, collaborating with cross-functional teams to detect and resolve codebase bugs early, ensuring a seamless deployment process.
- Utilised Azure DevOps to optimize CI/CD build and release pipelines, integrating MySQL database to improve data retrieval and storage efficiency.
- Competent in startup environments with a fast-paced Agile approach, prioritizing swift solution delivery.

Audit Assistant *(ShineWing TY Teoh PLT)* **Malaysia** *11/2017 - 05/2020*

- Responsible for maintaining relationships with audit clients, keeping them informed of submission deadlines, and advising them of current governance practices.
- Collaborate with teammates on assignments, guiding junior staff to complete the audit report following accounting standards.
- Assisted in maintaining and modifying formulas and table templates in the company's Excel template sheets.

Retail Assistant *(POPULAR Book Company (M) Sdn Bhd)* **Malaysia** *05/2017 - 11/2017*
- Engage in effective communication with customers to identify issues and offer solutions for a better customer experience.

- Supporting and executing initiatives from upper management ensuring hitting seasonal targets by 10%.

Projects

Song Lyrics Analysis *06/2024*
- Utilises Spotify Web API to develop a Streamlit project to analyse song lyrics, offering insights into word count, repetitive phrases, and unique words, with additional support for CJK (Chinese, Japanese, and Korean) characters in mixed-language songs.

- Enables end-users to enhance their language learning and understanding of lyrical trends by providing detailed analyses of song lyrics across multiple languages.

- Streamlit link: `https://lyricsanalysis.streamlit.app/`

- Github link: `https://github.com/hudarashid/lyrics_analysis/tree/main`

Publication Counts based on the Europe PMC RESTful Web Service *05/2024*
- Developed a Streamlit project that generates visual histograms of the most cited publication papers using the Europe PMC RESTful API, enabling users to identify influential research and trends easily.

- Streamlit link: `https://publicationeuropepmc.streamlit.app/`

- Github link: `https://github.com/hudarashid/europe_pmc_st/tree/main`

Education

MSc. Computing *Sheffield Hallam University* **Sheffield, UK** *2021-2023*

- Research Dissertation on Comparison Between Decision Tree Algorithm and a Hybrid Approach of Decision Tree Algorithm with Symbolic Logic

  - This dissertation aimed to enhance decision tree algorithms by incorporating symbolic logic by using Prolog, addressing the limitation of overfitting.
  - Demonstrated that integrating symbolic logic improved the predictive accuracy and generalization capabilities of decision tree models, as evidenced by improved evaluation scores.
  - Link to Github repository: `https://github.com/hudarashid/dissertation_project/tree/main`

- System Design and Development (C# and ASP.NET)

- Web Development (HTML, CSS, PHP)

- Databases and Big Data (MySQL and MongoDB)

BSc. in Accounting and Finance *Crescendo International College* **Malaysia** *2014-2017*
Relevant Courses: Accounting, Auditing, Statistics and Mathematics, Business Management

GCE AS & A Level *Crescendo International College* **Malaysia** *2013-2014*
Relevant Courses: Accounting, Economics, Business Studies

Online Courses & Certifications

- Responsive Web Design (2021) - [FreeCodeCamp](#)

- JavaScript Algorithms and Data Structures (2021) - [FreeCodeCamp](#)

- Front End Development Libraries (2021) - [FreeCodeCamp](#)