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Skills_

Back-end Django, Flask, FastAPI, Node.js, MongoDB, PostgreSQL, MySQL

Data Science NLP, SpaCy, PyTorch, ScikitLearn, Pandas, NumPy

Programming Python, Java, Kotlin, JavaScript, C

HTML, CSS, Cucumber, Github, Jira, Jenkins, Agile, BDD Others

Languages Korean, English, Chinese(Conversant)

Work Experience _____

Garena Singapore, Singapore

SOFTWARE DEVELOPER(QA) INTERN

May. 2022 - Ongoing

- Migrating Mock API Server from Flask to FastAPI for fast development and performance with Python.
- Automating Android testing procedures using frameworks like UIAutomator, JUnit and Cucumber, which reduces dependency on manual tests.
- · Adopting BDD practices in Web and Mobile Testing processes in Live Steaming Platform that leads to higher efficiency in an agile SDLC.

SAP Asia Sinaapore, Sinaapore

FULL STACK DEVELOPER INTERN

Aug. 2021 - Dec. 2021

- Worked as a Scrum Master in an agile CI/CD environment using Jira, Jenkins and Github
- Supported multiple successful releases of a Machine Learning Web application built with Flask and a PostgreSQL DB running under CloudFondry through continuous improvements and bug-fixes.
- Fixed software bugs, enhanced application and built test-cases with PyTest and verified codes throughusing tools, such as Postman and Kibana, which improved the stability and traceability of the application.
- · Delivered quality codes with in-line comments through detailed documentation and QA tools, such as SonarQube.

Education

Nanyang Technological University (NTU)

Singapore, Singapore Aug. 2017 - Dec. 2022(Exp)

B.E. IN COMPUTER SCIENCE

• CGPA: 4.61/5.00 (Expected: Highest Distinction)

Projects

Final Year Project: Optimizing Epidemic Spread using Deep Reinforcement Learning

NTH

DEVELOPER

Jan. 2022 - Ongoing

- Built a SEIR model simulation for COVID-19 under Python and OpenAl's Gym Environment, which reflects the reproduction rate of COVID-19.
- Utilized State-Of-Art Deep Reinforcement Learning models such as DQN, DDQN and PPO and evaluated them to find the best performing model.

Information Retrieval: Sentiment-based Business News Analyzer

LEADER, BACK-END DEVELOPER, DATA SCIENTIST

Feb. 2022 - Apr. 2022

- Extracted 20,000 news articles using BeautifulSoup and Newspaper3K, and stored them inside a search engine, Solr.
- Developed Machine Learning (ML) model, including RoBERTa model using SpaCy for Named Entity Recognition (NER) and DistilBERT model using HuggingFace for Sentiment Analysis, and achieved an accuracy rate of 81% and 85%, respectively.
- Built a demo Web application using Streamlit to showcase the ML models, which effectively delivered the purpose of the ML models to users.

iNTUition: Bus Live Location System

Hackathon

LEADER, BACKEND DEVELOPER

- · Instrumented the system design for the Web Application by selecting MongoDB for the database, FastAPI for the server and Flutter for client applications, and efficiently assigned the work to 3 other members.
- · Developed NoSQL DB schemas and backend server using FastAPI, and deployed the server on Heroku in the given 24 hours, which allowed easier integration with the client application.

Course Planning Website

NTU

LEAD DEVELOPER

Dec. 2020 - Apr. 2021

- · Implemented the course schedule scraping from the University's server and planning algorithm with optimized time complexity using Python.
- Instrumented the system design of the application, work distribution among team members and management of project schedule as the leader.
- · Developed the back-end REST API using Flask, and utilized the final deliverable to automate the course scheduling.