Pritom Kumar Mondal

Software Engineer in Test

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Highly skilled software developer with over 4 years of experience in SDET and SDE roles. Demonstrated expertise in developing and implementing automation scripts, debugging software defects, and collaborating with cross-functional teams. Proven ability to learn quickly and adapt to new technologies.

WORK EXPERIENCE

Software Development Engineer in Test at Binance (May 2022 - Now) | Crypto Exchange

- Built QaGPT, an intelligent QA assistant leveraging open-source Ollama, ChatGPT, and Retrieval-Augmented Generation (RAG), integrated with three databases to enable dynamic querying, visualization, and 90% reduction in manual dashboard efforts.
- Developed a smart approval monitoring tool, replicating revoke.cache functionality to trace spender approvals via transaction IDs and trigger automated alerts for abnormal approvals, enhancing on-chain security awareness.
- Created an automated CI/CD PR review system using GitHub Actions, Docker, GitHub3.py, and OpenAI APIs, capable of summarizing multi-file PRs and generating contextual review comments, streamlining code reviews.
- Unified three QA automation suites into a centralized platform with Flask and AWS Lambda, enhancing analytics and test orchestration; developed a real-time QA metrics dashboard for improved visibility.
- Led end-to-end QA automation with CI/CD pipelines using Python, Selenium, and Appium, reducing testing time by 30%, and executed comprehensive testing (functional, integration, regression) across blockchain features.

Software Development Engineer in Test at AiFi Inc. (February 2021 - April 2022) | Autonomous Store

- Developed automation test architecture and implemented CI/CD pipeline for software version deployment.
- Wrote and executed test cases, analyzed test reports, and reported bugs.
- Worked closely with the development team to ensure timely and accurate testing of new features and enhancements.
- Technologies used: python, k8s, Docker, python, selenium, azure etc.

INTERNSHIP EXPERIENCE

Machine Learning Intern at NOMURA (July 2020 - August 2020) | Ranking Prediction

- Conducted data extraction and processing to build a simulator for a machine learning-based ranking prediction system using Python, MSSQL, and Flask technologies.
- Developed and implemented supervised machine learning algorithms to predict rankings by achieving an accuracy of 78%.
- Coordinated and collaborated with team members to ensure efficient project development and completion.

Software Engineer Intern at Guo Yi Xian Technology (January 2018 - May 2018) | Automatic Forklift System

- Developed new drag and drop and resize components using PixiJS
- Implemented Dijkstra's algorithm to optimize Forklifts' routes, resulting in significant efficiency gains
- Contributed to full-stack development efforts by integrating front-end with back-end
- Enhanced codebase readability through refactoring and documentation improvements.

Software Engineer Intern at NOMURA (July 2017 - October 2017) | Status Monitoring System

- Developed new functions using REST API for monitoring system, enhancing its functionality and improving user experience.
- Designed and implemented a user-friendly web interface using JavaScript to visualize database information, increasing accessibility and usability for stakeholders.
- Produced comprehensive documentation of the project, including technical specifications and user guides, ensuring easy maintenance and future development.
- Utilized technologies such as Gemfire, JMS, OQL, Maven, and Spring to deliver a high-quality, robust system.

EDUCATION

Shanghai Jiao Tong University (2018-2021)

Master of Science, Computer Science
- Shanghai Jiao Tong University Scholarship, Top 5%.

Fudan University (2014-2018)

Bachelor of Science, Software Engineering
- Chinese Government Scholarship (A type), Graduation Ceremony Speaker

PUBLICATIONS

- **Forecasting popularity of the news article by title analyzing with BN-LSTM network.** (ICDMML 2019),
- **A Dynamic Network Traffic Classifier Using Supervised ML for a Docker-based SDN Network**. (Connection Science)

PATENT: Docker-based Cloud Application Automation Deployment (CN No. 2019112242339)

PATENT: A Dynamic network flow scheduling allocation method and controller algorithm (CN No. 202010647505)

TECHNICAL(IT) SKILLS

Programming/Scripting Languages: Python, Flask, Django, Go, Java, Jsp, JS, HTML, CSS
ML Framework: Keras, Tensorflow, Scikit-learn
Tools: Pycharm, Android Studio, Selenium, Git, Lens
Database Management: MongoDB, MySQL, MS Access, Postgresql
Cloud-Based Technologies: Docker, Kubernetes, Azure, AWS
OS System: Linux, Windows, iOS

LANGUAGES

English (Expert), Chinese (HSK-5), Bengali (Native), Hindi(Basic)

RESEARCH INTEREST

Machine Learning, Natural Language Processing(NLP), Big Data, Software Defined Network (SDN)