Pritom Kumar Mondal

Software Engineer

Highly skilled software developer with 2 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.

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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

WORK EXPERIENCE

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

- Conducted functional, integration, and regression testing of core blockchain features and functionalities
- Created E2E Automation architecture with ci/cd pipeline using tools such as Python, Selenium Web Driver, and Appium, resulting in a 30% reduction in testing time.
- Collaborated with cross-functional teams including developers, and product managers to ensure software quality, testing coverage, and reliability.
- Contributed to the development and improvement of QA processes and procedures.

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.

PROJECTS

Network Traffic Classification (Research Work)

- Conducted packet analysis of over 300K network packets using nDPI.
- Developed a network traffic classifier by implementing supervised machine learning algorithms and improved its accuracy by at least 2%.
- Grouped similar applications based on Class of Service (CoS) rules, resulting in a significant impact on classifier accuracy.
- Created and contributed to the open-source project for network traffic classification available at https://github.com/pritom007/Network-Traffic-Classification.

SearchFlow (Search Engine Project)

- Developed a crawler to extract 3 million+ questions and answers from Stackoverflow
- Trained a classifier using the data to improve search accuracy by 90% using DNN model
- Implemented a top search feature, fixed bugs, and maintained code quality
- Created project documentation/report and shared it on GitHub: https://github.com/KevinCT/SearchFlow

Data Mining

- Developed a Facebook data scraper with Selenium that can collect data from official pages, send messages, and post on Facebook walls. Project available at: https://github.com/pritom007/FacebookParser
- Built a Bengali newspaper scraper that gathered five years' worth of news data. Project available at: https://github.com/pritom007/Bangla-Newspaper-Scraper/blob/master/prothomalo.py

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
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)

VOLUNTEER ACTIVITIES

Former vice-president of Fudan Dormitory Committee, Fudan University
Volunteered in the events organized by International Student organization, Fudan University
Member of ISU Academic Department, Shanghai Jiao Tong University

AWARDS & ACIEVEMENTS

SHANGHAI JIAO TONG UNIVERSITY SCHOLARSHIP (2018-2021)
CHINESE GOVERNMENT SCHOLARSHIP (A TYPE) (2013-2018)
BANGLADESH GOVERNMENT SCHOLARSHIP (2010)
OTHER NON-GOVERNMENT SCHOLARSHIPS (2005 - 2009)