Pritom Kumar Mondal

Software Engineer

Hardworking, solution oriented software developer skilled in leadership, problem solving and pressure handling. Looking for internships and full-time opportunities in the field of software engineering.

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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

Intern at Guo Yi Xian Technology (January 2018 - May 2018) | Automatic Forklift System
  - added new drag & drop, resize component features using PixiJS
  - implemented Dijkstra's algorithm to find the shortest path for the Forklifts
  - added front-end to the back-end
  - improved the readability of existing code

Intern at NOMURA (July 2017 - October 2017) | Status Monitoring System
  - created new functions using REST API for the monitoring system
  - created a JS based web interface to project the database information
  - made proper documentation of the project.
    technologies used: Gemfire, JMS, OQL, Maven, Spring etc.

PROJECTS

Network Traffic Classification (Ongoing Research Work)
  - collected more than 300K network packets from the lab. Using nDPI analyzed the packets.
  - implemented supervised machine learning algorithms to make the network traffic classifier. The accuracy already improved by at least 2%.
  - grouped similar applications according to CoS rule. Which eventually made a significant impact on the classifier accuracy.
    project url: https://github.com/pritom007/Network-Traffic-Classification

SearchFlow (Search Engine Project)
  - made an efficient crawler that collected more than 3 Million questions and answers from Stackoverflow.
  - using the crawled data trained classifier to detect the types of search. Got 90% accuracy for DNN model which made the search feature dynamic.
  - added top search feature, fixed bugs and maintained the quality of code. Wrote the documentation/report of the project.
    project url: https://github.com/KevinCT/SearchFlow

Disease Prediction and Classification (Using Gene Data)
  - implemented PCA to reduce the dimensionality of the data-set.
  - implemented SVM, DNN and Logistic Regression algorithm and compared the accuracy of classifiers.
    project url: https://github.com/pritom007/BioInfoML

Data Mining
  - created Facebook data scraper using selenium. The scraper is able to collect data from official pages, send messages and post in the Facebook wall.
    url: https://github.com/pritom007/FacebookParser
  - created Bengali newspaper scraper. Collected nearly 5 years of news data.
    url: github.com/pritom007/Bangla-Newspaper-Scraper/blob/master/prothomalo.py

PUBLICATIONS

  - **Forecasting popularity of the news article by title analyzing with BN-LSTM network.** [C]
    2019 International Conference on Data Mining and Machine Learning (ICDMML 2019),
  - **A Dynamic Network Traffic Classifier Using Supervised ML for a Docker-based SDN Network**. (Ongoing)
  PATENT : Docker-Based Cloud Application Automation Deployment (ongoing)

TECHNICAL(IT) SKILLS

  Programming/Scripting Languages: Python, Java, Jsp, JS, HTML, CSS
  ML Framework: Keras, Tensorflow, Scikit-learn
  Tools: Pycharm, Android Studio, Selenium, Git, Maven
  Database Management: MongoDB, MySQL
  Cloud-Based Technologies: Docker
  OS System: Linux, Windows

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
  Member Bangladesh Student Association, Shanghai Jiao Tong University
  Member of swimming club, Shanghai Jiao Tong University