

Subhayu Chakravarty

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Passionate and agile software engineer with five years of experience in an institutional financial services firm. I am pursuing an analytics-focused Master's program and seeking engineering roles in the data domain that involve actualizing outcomes from data potential and optimizing processes for the benefit of Homo Sapiens and beyond.

CURRENT SKILLS

- Languages: Python, Java
- Python Libraries: Numpy, Pandas, Scikit Learn, TensorFlow, Keras
- Data: Spark, Oracle, PostgreSQL, MySQL, SQLite3
- Backend: Flask, Django, Spring Boot, Spring Integration, TIBCO BusinessWorks, GWT
- Build and Deploy: Google Cloud, AWS, Docker, OpenShift, Linux server

EDUCATION

The University of Texas at Austin Master of Science in Information Technology and Management *(Expected) May 2020*
GPA: 3.73

Coursework Includes: Cognitive Computing, Big Data & Distributed Programming, Emerging Technologies(IoT, Blockchain)

IIT Kharagpur, India Bachelor of Technology, Manufacturing Science and Engineering *May 2014*

DATA PROJECTS

Computer Vision Capstone - *Accenture and The University of Texas at Austin* *(Current) January-Present 2020*

- Developing proof-of-concept applying machine vision to enhance campus safety by detecting hazardous objects on premises
- Applying human-centered design methods and machine learning models to build a scalable cloud solution

GoodBooks Recommender - *The University of Texas at Austin* *November 2019*

- Scraped Goodreads.com for reviews and metadata of top 100 NYTimes bestsellers of 2019
- Built book recommendation system based on desired attributes provided by user

Healthcare Data Analysis - *Humana-Mays Analytics Case Competition* *September - October 2019*

- Cleaned, labelled raw event data of 35,000 patients and engineered features to identify a specific trend in patients as given in competition statement
- Applied predictive models on the highly imbalanced dataset, tuned parameters to arrive at ROC/AUC score

4DByD - Error Debugging Console - *Yuuvis Hackathon, Austin TX* *August, 2019*

- Constructed a debugging console to be run locally that captures errors from any log - Flask backend, ReactJS front-end
- Developed interface allowing user to open all files from specific stacktrace as VSCode project, storing on cloud using REST APIs

WORK EXPERIENCE

Credit Lyonnais Securities Asia (CLSA) - *Software Engineer, Reference Data; Pune, India* *January 2015 - April 2019*

Development, optimization and enhancement of twelve Reference Data applications, collaboration on roadmap discussions and design decisions. Appointed Data Guardian and Product Liaison of suite of applications for having significant functional knowledge.

PROFESSIONAL PROJECTS

Enhanced Liquidity Pool - *CLSA - Sr. Backend Engineer/Designer* *July - September 2018*

- Collaboratively designed front-to-back architecture of system including its interaction mechanism with central data lake
- Enhanced Angular UI, implemented KeyCloak authentication with a Spring backend and PostgreSQL database for new web-app hosted on OpenShift cloud

Tibco Retirement - *CLSA - Sr. Backend Engineer* *August - September 2018*

- Saved 0.5 million USD in annual license costs by decommissioning TIBCO and transforming legacy systems into Data-centric, Microservices architecture
- Replaced eleven Tibco BusinessWorks applications with services using Spring/REST framework with a team of two
- *Received Team Award for Excellence*

Fixed Income On-boarding - *CLSA - Business Analyst* *July - September 2017*

- Ensured a 5 million USD increase in commission for the firm post go-live and smooth release by reconciling 2 gigabytes of client data between the systems
- Drafted requirements guiding the client migration from CITICS data store into CLSA reference data system
- Coordinated with global Development, Support and Business user teams to finalize guidelines and implementation
- *Received Team Award for Project Success*

LEADERSHIP EXPERIENCE

Client Reference Data Team - *CLSA - Functional Leader* *January 2017 - July 2017*

- Took charge of daily task reviews, scrum effort estimation and project assignment responsibilities
- Transitioned and guided seven freshers into team through training

Jira Administrator - *CLSA - Team Lead* *July 2015 - May 2016*

- Managed server issues and trained next batch of graduate interns about Jira maintenance system
- Updated and maintained roster of eight team members for day-to-day Jira issues

ADDITIONAL INFORMATION

Languages: English, Bengali, Hindi

Hobbies: Challenging hackathons with goals of helping people, playing the guitar and soccer, pencil-sketching and simulated stock trading