

PROFESSIONAL EXPERIENCE

Senior Software Engineer (602)

Jul '17 - Present

JP Morgan Chase & Co

Bengaluru

Software Engineer (grade : 601) from Jul'17 to Dec'20.

- Stakeholder of Python based real-time and EOD feeders to handle critical financial and reference data from various sources. The feeders process around 16 billion records of trade data everyday and store them into KDB.
- Worked on optimizing data pipelines to KDB using Apache Kafka to real time forex and rates dashboards.
- Designed a comprehensive framework for building financial chat-bots and real time trade Notifiers. The chatbot is currently used by around 45 chatrooms used by various sales and trading global teams across forex, rates and commodities.
- Conceptualized and implemented a new report system with REST APIs for Transaction Cost Analysis (TCA) using Tableau, Flask/NGINX.
- Currently working on migrating the existing data warehouse to AWS.

Undergraduate Research Assistant

Aug '16 - May '17

Web Intelligence & Social Computing (WISoC) Lab, BITS Pilani

Pilani

- Enhanced the existing language Identification Systems for multi-lingual sentences thereby identifying places for code-switches.
- Improved Sentiment Analysis for multi-lingual code-mixed sentences using SentiWordNets.
- Worked on implementing NLP Tools like Parts Of Speech (POS) Tagger and Named Entity Recognizer (NER) for code-mixed Indian languages.

Summer Intern

May '15 - Jul '15

IBM

Bengaluru

- Desktop Management Automation - Designed a payload attribute validator using Java.
- Automation Scripts for iOS Devices - Written Test process (both client and server) end to end in Java and Eggplant.

EDUCATION

BITS Pilani

Aug '13 - May '17

B.E.(Hons) Computer Science

Pilani, Rajasthan

CGPA: 8.38/10.0

PUBLICATIONS

1. Sharma, Yashvardhan, Rupal Bhargava, and Bapiraju Vamsi Tadikonda. "Named Entity Recognition for Code Mixed Social Media Sentences." *International Journal of Software Science and Computational Intelligence (IJSSCI)* 13.2 (2021): 23-36.
2. Bhargava, Rupal, Bapiraju Vamsi, and Yashvardhan Sharma. "Named entity recognition for code mixing in indian languages using hybrid approach." *Facilities* 23.10 (2016).

TECHNICAL SKILLS

- **Languages:** Python, C++, Java
- **Frameworks/Libraries:** Flask, Kafka, Scikit-learn, Pandas, NLTK, OpenCV
- **OS:** Windows, Linux
- **Software:** Apache, NGINX, JIRA, Git, Jenkins
- **Database:** PostgreSQL, KDB

PROJECTS

1. **Compiler for Artificial Language** - A Basic Compiler was designed having a lexer, LL(1) parser, AST tree generator, semantic analyzer, type checker and an intermediate code generator. The compiler was implemented in C.
2. **Automated Question Answering System** - Developed a mini-system that can answer "W" questions. Potential answers from top HTML web documents were scored based on similarity matching (using Levenshtein distance). The system was implemented using Python's NLTK and fuzzy-wuzzy libraries.