Bapiraju Vamsi Tadikonda

SOFTWARE ENGINEER

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Education

North Carolina State University   *Raleigh, NC*
MASTER OF COMPUTER SCIENCE, GPA: 4.0/4.0   *Aug. 2021 - Dec. 2022*
- Parallel Systems, Neural Networks, Algorithms for Business Intelligence, Design & Analysis of Algorithms, Automated Learning & Data Analysis, Database Systems

BITS Pilani   *Pilani, India*
BACHELOR OF ENGINEERING, COMPUTER SCIENCE, GPA: 8.38/10   *Aug. 2013 - May. 2017*
- **Relevant Coursework**- Data Structures, Algorithms, Database Systems, Data Mining, Artificial Intelligence, Operating Systems

Skills

Languages	**Python**, **Java**, C, JavaScript, TypeScript, C++, HTML, CSS, SQL
Software Frameworks & Libraries	**Flask**, Pandas, Keras, NumPy, NLTK, Selenium, Open MPI, CUDA
Technologies	**AWS**, Docker, Kafka, **REST**, NGINX, Tableau, Spark, Hadoop, MapReduce
Databases & Dev Tools	PostgreSQL, **DynamoDB**, KDB, MongoDB, **GIT**, Pycharm, Intellij, Maven, Jenkins, Linux

Work Experience

Warner Bros. Discovery   *Remote, USA*
HBO MAX SOFTWARE ENGINEER INTERN   *Jun. 2022 - Aug. 2022*
- Redesigned the IAP Subscription Plan Service(SKU) model. Restructured the table schema in **DynamoDB**. Updated the REST APIs to support multiple countries and dynamic pricing of currencies.
- Built a **Javascript** based CLI tool to add/update promotions to subscription plans to eliminate the manual effort previously done.

JPMorgan Chase &Co.   *Bangalore, India*
SENIOR SOFTWARE ENGINEER   *Jan. 2021 - Aug. 2021*
- **REST API Development** - Conceptualized and implemented a new report service layer, delivering to 20 clients, with **RESTful APIs** for Transaction Cost Analysis (TCA) using Tableau, **Flask** and NGINX.
- Migrated the pricing information data from on-premise servers to **AWS** and have designed APIs to route the queries accordingly.

SOFTWARE ENGINEER   *Jul. 2017 - Jan. 2021*
- **Data Pipelines** - Handled Data ingestion of around 16 billion records of trade data every day with Pub-Subs and **Kafka** Streams and stored them into **KDB** (time-series database) and **PostgreSQL**.
- Designed and Developed Backend APIs using **Python** and **Java** to support real-time P&L of SDR products.
- **Chat-bots** - Designed a comprehensive framework in **Python**, for building financial chat-bots and real-time trade Notifiers. The chat-bots are currently adopted by 60 global sales and trader chat rooms (with an increase of 200% YoY).
- Designed and developed an optimal near real-time data extraction framework using indexes to minimize trade reconciliations from hourly to daily.

Web Intelligence & Social Computing Lab, BITS Pilani   *Pilani, India*
RESEARCH ASSISTANT   *Aug. 2016 - May. 2017*
- **Language Identification** - Improved the F-Measure of the previous language Identification System by 17% for multi-lingual sentences thereby identifying places for code-switches.
- **Sentiment Analysis** - Created SentiWordNet dictionaries for 13 Indian languages, which have the information of both the polarity scores along with the Part of Speech (POS) tag. Applied Sentiment Analysis for multi-lingual code-mixed sentences with SentiWordNets.
- **NER Tagger** - Designed Named Entity Recognizers (NER) in Python, with an accuracy of 97%, for code-mixed Indian languages using Conditional Random Fields (CRF), Random Forests and Neural Networks. The work was published **here**

IBM   *Bangalore, India*
SOFTWARE ENGINEER INTERN   *May. 2015 - Jul. 2015*
- Created a payload attribute validator with **Java** and Selenium. The validator increased the test coverage for the product Maas360 by 5%.
- Automated the end-to-end testing of registration and access control management on MaaS360 for an iOS device using **Java** and Eggplant. The tests reduced the manual intervention by around 70%.