# Bapiraju Vamsi Tadikonda

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## EDUCATION

**Master of Computer Science**                                                 Raleigh, NC | Aug 2021 - Dec 2022
North Carolina State University

**B.E. Computer Science with Honors**                                     Pilani, India | Aug 2013 - May 2017
BITS Pilani                                                                                                  GPA: 8.42/10.0

## WORK EXPERIENCE

**JP MORGAN CHASE & CO** | Software Engineer            Bangalore, India | July 2017 – Aug 2021

- Promoted to Senior Software Engineer in January 2021.
- **Data Pipelines:** Handled Data ingestion of 16 billion records of trade data every day using **Python** and stored them into **KDB** along with 2 other teammates. The Data consists of critical financial and reference data from various internal and external sources.
- **Chat-bots:** Designed a comprehensive framework, currently adopted by 60 chat rooms, for building financial chat-bots and real-time trade Notifiers. The chat-bots currently serve various global sales and trader teams across forex, rates and commodities.
- **REST API Development:** Conceptualized and implemented a new report system, delivering to 20 clients, with RESTful APIs for Transaction Cost Analysis (TCA) using **Tableau**, **Flask** and **NGINX**.

**WEB INTELLIGENCE & SOCIAL COMPUTING LAB** | Research Assistant        Pilani, India | 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:** Generated and published SentiWordNet dictionaries for 13 different Indian languages and applied Sentiment Analysis for multi-lingual code-mixed sentences with SentiWordNets.
- **NLP Tools:** Implemented NLP Tools like Parts Of Speech (POS) Tagger and Named Entity Recognizer (NER) for code-mixed Indian languages.

**IBM** | Software Engineer Intern                                        Bangalore, India | May 2015 – Jul 2015

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

## SKILLS

**Languages:** Python, C, SQL, Java, C++, HTML, CSS
**Frameworks/Libraries:** Flask, Kafka, Scikit-learn, Keras, Pandas, Numpy, NLTK, OpenCV
**Technologies:** AWS, Docker, LaTeX, KDB, MongoDB, PostgreSQL, Apache, NGINX, JIRA, Git, Jenkins

## PROJECTS

**COMPILER** ⬀                                                                                                         C
Designed a Basic Compiler with the following components: a lexer, LL(1) parser, AST tree generator, semantic analyzer, type checker and an intermediate code generator.

**AUTOMATED QUESTION ANSWERING SYSTEM** ⬀                                            Python, NLTK
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).

## PUBLICATIONS

- "Named entity recognition for code mixing in Ixndian languages using hybrid approach." Facilities 23.10 (2016).
- "Named Entity Recognition for Code Mixed Social Media Sentences." International Journal of Software Science and Computational Intelligence (IJSSCI) 13.2 (2021): 23-36.