

VENKATESH PRASAD RAMANI

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EDUCATION

Master of Science, Computer Science

May 2023

University of Florida, Gainesville

Courses: Analysis of Algorithms, Distributed Operating System Principles, Distributed Multimedia System

Bachelor of Engineering, Computer Science and Engineering

May 2019

Anna University, India

GPA 8.67/10

SKILLS

Languages and frameworks: Java, JavaScript, Python, C, C++, F#, HTML, CSS, SQL, Bootstrap, Django, Flask, Struts, Akka

Tools and databases: Git, Mercurial, Tableau, SQLite, MySQL, Redis

Certifications: Data Analyst Nano Degree by Udacity, A-Z Machine Learning by Udemy

WORK EXPERIENCE

Member Technical Staff, Zoho Corporation, Chennai, India

May 2019 – July 2021

- Collaborated remotely with a team in Europe to craft the Spanish version of an online writing assistant in *Java* which contributed to product growth in Europe
- Refactored a monolithic application into a microservice architecture which greatly accelerated the performance as well as the pace of development and deployment
- Architected an efficient mechanism for caching the key value data in *Redis* which reduced the fetching latency by ~15ms
- Processed the N-gram data of 52 languages using *Python* to efficiently sort the spell suggestions based on word frequency
- Designed the main page of a *grammar checker* tool using *HTML*, *CSS* & *JavaScript* and integrated it with a microservice

Project Trainee, Zoho Corporation, Chennai, India

December 2018 – April 2019

- Implemented a feature in *Java* to allow the users to report false positive suggestions and devised a functionality to store the entry temporarily in the *Redis* for later processing

Incubation Trainee, Zoho Corporation, Chennai, India

August 2018 – September 2018

- Built a markdown editor to support rich text in the *Comments* section and worked on *diff-match-patch* to keep track of the changes in an online word processor

Research Intern, Mahindra Research Valley, Chennai, India

June 2018 – July 2018

- Developed an application to estimate the wear in the blades used in tractors using *Convolutional Neural Network* to predict its impact on the fuel consumption of the tractor using *linear regression* algorithm
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PROJECTS

F-Suite (Java, Python): A mobile application based on *Django* framework which uses *linear regression* and *Convolutional Neural Network* to provide a suite of functionalities to farmers like crop suggestion, yield prediction and crop disease identification

Strategizer (Python): An online algorithmic trading platform developed using *Django* framework which lets the investors to create their own algorithms and strategies to automate the trading of stocks from *National Stock Exchange* (NSE), India

Google N-gram API (Python): A python package published in *The Python Packaging Index* (PyPI) which provides API to extract aggregate data based on user specified parameters from the massive N-gram dataset in *Google Books*

Smart Jar (C++): An *Internet of Things* model built using *Arduino Uno* microcontroller interfaced with MQ3 sensor to monitor and control a person's alcohol consumption by processing the sensor data stored and retrieved from *ThingSpeak* cloud channel

Automatic Toll Tax Collection System (C): An embedded system implemented using the *Universal Learning Kit* (ULK) with the integration of *Radio-frequency Identification* (RFID), that aims at automating the toll tax collection process

ACCOMPLISHMENTS

- "Best Out-going Student" award in undergraduate program
- "Department Topper" award during undergraduate program
- "Best Project" award in a National Level Technical Hackathon
- "Best Business Social Idea" award in a make-a-thon conducted by India Electronics and Semiconductor Association