VENKATESH PRASAD RAMANI

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SUMMARY

- 2+ years of industry experience in web app development with good problem solving skills and ability to quickly learn new technologies
- Proficient in Java, JavaScript and Python with sound exposure to Agile methodologies and Software Development Life Cycle Principles

EDUCATION

University of Florida, US – MS in Computer Science | GPA: **3.94** / 4.0 **August 2021 – May 2023**

Courses: Algorithms, Advanced Data Structures, Distributed Systems, Database System Implementation, Software Engineering

Anna University, India – BE in Computer Science | GPA: **8.67** / 10.0 **August 2015 – May 2019**

SKILLS

Languages and Databases: Java, Python, C++, Go, F#, SQL, SQLite, MySQL, MongoDB, Redis

Web development: HTML, CSS, JavaScript, jQuery, JSON, JSP, Servlets, Bootstrap, Node, React, Django, Flask, Struts, Akka.NET, MVC

Software, Tools and services: Visual Studio, IntelliJ, Anaconda, Git, Mercurial, Jira, Docker, Postman, RESTful API services, Microservices

EXPERIENCE

Engineering Development Group Intern | MathWorks | USA **May 2022 – August 2022**

Graphics Infrastructure *[JavaScript, MATLAB, C++]*

- Developed a server-side functionality in C++ for exporting graphics as a HTML file in *MATLAB* to support interaction outside of MATLAB
- Implemented a feature that supports exporting graphics in *MATLAB Online* completely on the client-side using JavaScript libraries
- Identified and fixed issues in the MATLAB figure capture module which led to improvement in the precision of the exported content

Member Technical Staff | Zoho Corporation |India **May 2019 – July 2021**

Blue Pencil *[Java, JavaScript, Python, HTML, CSS, Redis, Microservice]*

- Collaborated remotely with a team in Europe to craft the Spanish version of an online writing assistant as a part of a SaaS platform, in Java which contributed to 30% increase in usage of the Proofing feature amongst European users
- Refactored a monolithic application into a microservice architecture to facilitate easy integration with other internal products
- Processed the N-gram data of 52 languages using Python to sort the spell suggestions based on the word frequency
- Architected a mechanism for caching the key-value data in Redis and in-memory to reduce its fetching latency by 10%
- Designed and built the UI for a grammar-checker tool (Blue Pencil) and integrated it with the Proofing microservice

Project Trainee| Zoho Corporation |India **December 2018 – April 2019**

Zoho Writer *[Java, JavaScript, Redis]*

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

Summer Intern | Mahindra Research Valley |India **June 2018 – July 2018**

Blade Wear Estimation *[Python, Django]*

- 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

ACADEMIC / PERSONAL PROJECTS

GatorExchange *[React, Go, MongoDB, Docker]* | **University of Florida** **January 2022 – April 2022**

Developed a web application that acts as a discussion forum for users to find and contribute answers to technical questions, by following SDLC principles and Agile methodologies and collaborating through GitHub

Twitter Clone *[F#, JavaScript, HTML, CSS]* | **University of Florida** **November 2021 – December 2021**

Created a distributed twitter engine and a simulator using Akka.NET actor model, WebSocket interface and RESI APIs to handle user requests concurrently

Chord Protocol Simulation *[F#]* | **University of Florida** **October 2021 – November 2021**

Implemented a peer-to-peer Distributed Hash Table for simulating Chord protocol based on actor model using Akka.NET framework and SHA-1 for consistent hashing

F-Suite *[Java, Python]* **| Hackathon at Rajalakshmi Institute of Technology** **September 2018 – October 2018**

Developed an application in a 24-hour hackathon with Django framework that uses linear regression and Convolutional Neural Network to provide a suite of functionalities to farmers like crop suggestion, yield prediction and crop disease identification

ACCOMPLISHMENTS

- Academic Achievement Award in the graduate program at the University of Florida.
- Best Out-going Student in undergraduate program at the Anna University.
- Best Project in a National Level Technical Hackathon conducted by Rajalakshmi Institute of Technology.