M S Pawan Ranjith

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EDUCATION

University of Colorado, Boulder Master of Computer Science (MSCS) Colorado, USA

Aug 2022 - May 2024

M S Ramaiah Institute of Technology, Bengaluru

Bachelor of Engineering (B.E.) - Information Science and Engineering; GPA: 9.38/10

Karnataka, India

July 2015 - July 2019

SKILLS SUMMARY

• Languages Java, Python, Scala, JavaScript, JuliaLang, C/C++, Shell, SQL • Frameworks SpringBoot, Spark, ReactJS, Node.js, Django, Flask, TensorFlow

• Cloud Tech & Tools Pivotal Cloud Services, AWS, Elastic Search, Apache Geode Cache, Kafka, Git, Jira

• Database Management Oracle ExaData, MySQL/MariaDB, MongoDB, Redis

Work Experience

JP Morgan Chase & Co.

Bengaluru

Associate Software Engineer (Liquidity and Finance Reporting Team)

July 2019 - July 2022

- Reduced business calculation time by 40% through implementing efficient Spark jobs for bank liquidity reporting.
- o Decreased application's infrastructure cost by modernizing user-facing monolith applications to Microservices based apps hosted in the internal cloud.
- o Enhanced security by adopting ADFS and Kerberos authentication.
- Worked on PoC of DNN that can predict the reason for the data anomaly found and worked on model explainability.

Intern (Fund Services Team)

o Selected as part of Code For Good program 2018. Built automation tool to set up sandbox based on user experiment configuration, Saving upto 2 person-hour per request.

Indian Institute of Science

Bengaluru

Research Intern

June 2018 - August 2018

o Selected as part Narendra Summer Internship, in Database System Lab, CSA department. Applied Deep Learning techniques in predicting cost metrics of a query to aid the query optimizer to pick the most optimal execution path.

ITC Infotech Bengaluru

Developer Intern

July 2017 - August 2017

o Built Android app for promoting small self-help groups in rural India. Worked on Azure Native App Integration and Aadhaar biometric authentication.

Student Microsoft Developer Program

Bengaluru

Developer Intern

June 2017 - July 2017

• University collaborated program in Microsoft Mobile Innovation Research Lab(MSRIT). Developed an interface for the cross-platform mobile applications to read various underlying sensors, i.e., GPS, Fingerprint, etc.

Projects

Graphic Based Verbal Reasoning — Computer Vision & NLP

It's a tool capable of answering natural-language questions asked on images. The question queried can be free form and open-ended, and the tool returns a natural language answer with confidence for each answer. It does reasoning than recognition on image, hence it leverages Computer Vision and NLP techniques to achieve.

• ICPAPP — GPS and FingerPrint Auth

Presented an innovative solution of collecting data necessary for calculating GDP in a non-repudiated methodology and eliminating proxy reporting by authenticating based on fingerprint and authorizing based on geo-position. This project was extension to my work done as part of Microsoft Student Developer Internship.

• Information Integrated Farming — Decision Support System

Designed and developed a Decision Support System for different agricultural industry stakeholders by augmenting various statistical data over an interactive map with geographical information. PoC as part of Smart Village initiative by State Govt.

• Blood Glucose Monitoring — Time Series Analysis

It's a non-invasive continuous blood glucose monitoring system. Performed time series analysis of rising and falling sugar levels to predict the insulin dosage.

CERTIFICATIONS

• MTA - Cloud Fundamentals

Microsoft Technology Associate in Cloud Fundamentals.

• Google Applied CS With Android

Certificate for successfully completing the Google Applied CS with Android Course.

Positions Held

Board of Studies - Information Science & Engineering Dept. (MSRIT)

Bengaluru

' Alumni Member

March 2021 - March 2022

• I helped the department adopt the latest tech industry trends into the curriculum and amend the curriculum to adhere to the New Education Policy by Govt. of India.

Google Developer Student Club (MSRIT)

Bengaluru

Lead of the Club

June 2018 - June 2019

- I conducted various hands-on sessions on various topics like Web & Mobile technologies, Microservice Architecture.. for 500+ students. I also mentored my juniors with their projects out of sheer passion.
- I have organized and managed numerous events like MLH Hackathon.. having 200+ participants. I have also been invited as Internal Judge to select teams for representing the college in Smart India Hackathon.

Women In Engineering — IEEE Chapter (MSRIT)

Bengaluru

Executive Member

June 2017 - June 2019

As part of the technical team of WiE College chapter, I have built and maintained a web application that assisted in
easier event management like automating registering process, and generation of e-Certificates for various events usually
held under WiE symposium

PUBLICATIONS

• Augmentation on Satellite Imagery with Information Integrated Farming

Published peer-reviewed paper at IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2019)

Honors and Awards

• Best Outgoing Student 2019

Awarded with title from my Dept. for my overall performance in academic and extra-curricular activities

• Best Senior Project

Recognised by my Dept. and Alumni Association of the college for my work in Graphic Based Verbal Reasoning project

• Smart India Hack 2018

Won the Innovation award for developing an app for ICPAPP, for Dept. Statistics and Planning (Govt.India)

• iTech2017 Codeathon

Winner-Special Jury award for developing in-app comprehensive feedback system as part of hackathon conducted by ITC Infotech India Ltd.

Research Interests

Deep Learning, Computer Vision, NLP, Explainable AI, Distributed Systems