M S Pawan Ranjith

First name: Pawan Ranjith
Last name: Muthaiah Subramanian

Email: pawanranjith@gmail.com
Mobile: +91 94833 27370
Linkedin: linkedin.com/mspawanranjith
Github: github.com/mspawanranjith

EDUCATION

- **M S Ramaiah Institute of Technology, Bengaluru** — Karnataka, India
  Bachelor of Engineering (B.E.) - Information Science and Engineering; GPA: 9.38/10 — July 2015 - July 2019
- **Narayana PU college, Bengaluru** — Karnataka, India
  11th grade - 12th grade, [Computer Science stream] GPA: 91.33% — June 2013 - March 2015
- **Kendriya Vidyalaya, Hebbal, Bengaluru** — Karnataka, India
  1st grade - 10th grade; GPA: 10/10 — April 2003 - March 2013

ACADEMIC EXPERIENCE

- **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

WORK EXPERIENCE

- **JP Morgan Chase & Co.** — Bengaluru
  Associate Software Engineer (Liquidity and Finance Reporting Team) — July 2019 - July 2022
  - My work was majorly on developing an analytical platform for liquidity data. Reduced business calculation time by implementing efficient Spark jobs needed for liquidity reporting.
  - I reduced the application's infrastructure cost by migrating user-facing monolith applications to Microservices based apps hosted in the internal cloud. Enhanced security by adopting ADFS and Kerberos authentication.
  - I have worked on PoC of DNN that can predict the reason for the data anomaly found and worked on model explainability for this, which reasons the prediction, providing clarity to the business users.

  Intern (Fund Services Team) — Jan 2019 - July 2019
  - Selected as part of Code For Good program 2018, my work was related to building deployment automation tool using Spring Boot backend and ReactJS front end.

- **Indian Institute of Science** — Bengaluru
  Research Intern — June 2018 - August 2018
  - Selected as part Narendra Summer Internship, in Database System Lab, CSA department. I applied Deep Learning techniques in predicting cost metrics of a query to aid query optimizer always to pick the most optimal execution path.

- **ITC Infotech** — Bengaluru
  Developer Intern — July 2017 - August 2017
  - My work was related to 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). My work was developing 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.

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.

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.

Skills Summary

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

Research Interests

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