

Prachetha P Vasishta

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EDUCATION

BMS College of Engineering, Bangalore

Aug. 2019 – Aug. 2023

Bachelor of Engineering in Electronics and Communication

CGPA : 9.14

Relevant Coursework : Machine Learning, Deep Learning, Data Structures, Web Technologies, Python Programming, Operating Systems, Computer Networks, Embedded Systems, Engineering Mathematics.

EXPERIENCE

Cisco Systems, Inc.

Bangalore, Karnataka

Software Engineer II - Full Stack Observability Team

Sept. 2024 – Present

- Developed an **ML-based Recommendation System** to forecast production outages from change requests, reducing downtime and improving system reliability.
- Developed a microservice using **Spring Boot**, **Elasticsearch**, and **Redis** to compute availability metrics and service hierarchy across Cisco's infrastructure, enabling teams to track trends via API calls and improving operational visibility.

Software Engineer Intern and Software Engineer I - Observability Team

Jan. 2023 – Aug. 2024

- Contributed to the **Monitoring Orchestration Experience** using **MERN**, integrating tools like *ThousandEyes* and *AppDynamics* into a unified platform. Automated large-scale monitoring with a personalized user experience, significantly enhancing efficiency and achieving **\$3.4 million** in savings.
- Setup **Global Server Load Balancers (GSLBs)** for core services, thereby improving resiliency and increasing system uptime.

Bosch Global Software Technologies

Bangalore, Karnataka

Project Trainee - Summer Intern

June 2022 – July 2022

- Worked in the automation of **Engine Diagnostics** and developed a Python-based solution for the automation of comprehensive reports generated through ECU Test Software, significantly reducing manual effort and improving efficiency.

PROJECTS

Research Paper Fault Detection in WSN using Deep Learning | Python, TensorFlow, MERN

June 2023

- Established communication in a Wireless Sensor Network utilizing **NodeMCU** and **Raspberry Pi**, and trained a custom **LSTM** model to detect faults with **94%** accuracy. Developed a real-time Python client and a full-stack web application with **Node.js** and **React.js** for user interaction, incorporating **Grafana** for enhanced visualisation.

Static Graphics Reviewer - (In collaboration with Nokia) | Python, OpenCV, Flask

Aug. 2022

- Developed a **Flask** application to review images in real-time against graphics and brand guidelines. Utilised **OpenCV** and **Adobe's DeepFont** architecture to build and train a model with **95%** accuracy.

Object Sorting using Robotic Arm | Python, OpenCV, ROS

Jan. 2022

- Developed image detection, recognition, and classification mechanisms using **OpenCV** running on a Raspberry Pi integrated with a robotic arm, developed using **ROS** that receives commands and sorts objects accordingly.

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, Java, MySQL, MongoDB, HTML/CSS

Frameworks: Node.js, Express.js, SpringMVC, React.js, Flask, JUnit, Jest, PyTest

Tools: Git, Docker, Kubernetes, CI/CD, GCP, Grafana

Libraries: Pandas, NumPy, Matplotlib, TensorFlow, OpenCV, Scikit-learn, SciPy, Keras

ACADEMIC AND RESEARCH ACHIEVEMENTS

Runner Up - Synopsys Inno Champ 2022 | National Level Innovation Contest

April 2022

Proposed a solution that involved building an efficient network of interconnected intelligent autonomous transport systems to improve urban mobility and sustainability.

Paper Presentation | Link : 5th National Conference on Networking, Embedded and Wireless Systems (NEWS) Oct. 2022

Delivered a presentation on the "Implementation of Digital Circuits using Ternary Logic" showcasing Multi-Valued approaches in digital logic design.

LEADERSHIP, VOLUNTEERING AND EXTRACURRICULAR ACTIVITIES

Volunteer - iTeach Rotaract BMSCE : Active volunteer for **iTeach** program teaching over 300 government school students in the subjects of Science and Mathematics.

Core Committee Member - BMSCE Phase Shift 2021: Led cross-functional committees to successfully organise the annual technical symposium with more than 10000 participants in 100+ events.

Intern - Adama Chetana : Participated in green initiatives focusing on education, health, nutrition, and environmental sustainability, ranging from sapling plantations to food distribution for people in need.

Hobbies: Carnatic Music, Keyboard, Music Production, Badminton, Swimming.