

GOPAL VAMAN NAIK

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EDUCATION

RV College of Engineering

BE in Electronics and Communication Engineering; GPA: 7.7/10

Bangalore, India

Jun 2024

Shree Vidyadhiraj Polytechnic

Diploma in Electronics and Communication Engineering; Percentage: 78%

Kumta, India

May 2020

SKILLS

Languages: Java, SQL, JavaScript, HTML, CSS, Python, C Programming.

Frameworks and Tools: Spring Boot, Git, Postman, Cisco Packet Tracer, Arduino.

Platforms: Windows, Linux, AWS.

Other Skills: RDBMS, DSA, IoT, Cloud, Networking Protocols.

PROJECTS

Backend Development of Blogging Web App | [github](#)

Apr 2024

Implemented a Spring Boot backend for a blogging web app, leading to a 30% boost in user interaction. Created RESTful APIs for user authentication, article, and comment management, ensuring 99% uptime and data flow.

Tools: Java 8, Spring Boot, Spring Data JPA, JWT Authentication, Hibernate, Git, Postman.

Real-Time Network Devices Monitoring Dashboard | [github](#)

Nov 2023 - Dec 2023

Designed a dashboard for monitoring routers, switches, and servers, reducing manual tracking efforts by 60%. The Designs of live status updates, Traffic, Managed Alerts, and Health parameters enhanced system reliability by 50%.

Tools: Java 8, Spring Boot, MySQL, HTML, CSS, JavaScript, Postman.

Real-Time Crop Cultivation and Nutrient Recommendation System | [github](#)

Jun 2023 - Aug 2023

Engineered a portable device suggesting the amount of additional nutrients required for crops, increasing yield by 20%. And created a mobile application for the user interface. Tested and evaluated by over 10 farmers.

Tools: Firebase, Amazon EC2, ML, ESP32 controller, GPS Module, NPK Sensor.

Home Automation System | [github](#)

Sep 2021 - Dec 2021

Developed an IoT-based home automation system allowing users to control devices via a mobile app, reducing energy consumption by 25%. Delivered custom designs based on customer requirements, enhancing user satisfaction by 40%.

Tools: Firebase, ESP32 controller, MIT App Inventor, EasyEDA, Arduino IDE.

Real-time Railroad Crossings Safety System - Indian Railway

Jan 2021 - Jun 2021

Built and maintained a railroad crossing safety system to improve public safety, reducing accidents by 35%. Moderated automated train tracking and railroad crossing security, reducing work complexity for Indian railway employees by 50%.

Tools: Java 8, Spring Boot, MySQL, HTML, CSS, JavaScript, Postman, Arduino, ESP.

WORK EXPERIENCE

Mitron Technologies and Innovations | [Embedded System - Intern](#)

Jan 2021 - Jun 2021

Managed customer projects from initial design to development and testing, achieving a 20% faster project turnaround time. Maintained real-time embedded systems, troubleshooting and resolving issues, achieving a 95% issue resolution rate.

Led and implemented solutions for the Air Force and Indian Railways, enhancing system efficiency by 30%. Collaborated with a team of engineers to design and implement complex systems, improving team productivity.

CERTIFICATE AND BADGES

- **Spring Boot Essentials - by Scaler:** Acquired essential Spring Boot skills through 18 video tutorials and 4 modules.
- **Programming In Java - by NPTEL:** Verified and Achieved a score of 75% in a 12-week tutorials course.
- **AWS Cloud Essentials - by AWS:** Developed foundational knowledge of AWS Cloud concepts and 5+ Database services.
- **AWS Quest: Cloud Practitioner - by AWS:** Demonstrated basic solution-building knowledge using 20+ AWS services.
- **Python Essentials 1 - by Cisco:** Demonstrated proficiency in covering programming concepts and syntax with 70%.
- **Introduction to IoT - by Cisco:** Understood IoT's role in Digital Transformation and emerging technologies in 3 weeks.
- **Introduction to Packet Tracer - by Cisco:** Learned to create digital models of IP Networks and IoT Systems in 4 weeks.
- **Operating Systems Basics - by Cisco:** Completed the OS concepts and security with a passing score of 70%.
- **SQL Basic - HackerRank:** Passed the SQL Basic assessment with a score of 80%.