

GOURAV BANG

Bangalore, India

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Education

MTech in Computer Science, IIIT Bangalore

Aug 2020 - Jul 2022

BTech in Computer Science, RGPV Bhopal

Aug 2015 - Jul 2019

Technical Skills

Programming Languages: C, C++, Python, Data Structures and Algorithms

Databases: MySQL, MongoDB

DevOps: Git, GitHub, Docker, Grafana, Jenkins, Ansible

Tools & Frameworks: MERN Stack, Python Flask, VS Code, Github Copilot

Work Experience

Cisco Systems India Pvt Ltd

(2.5+ years) Jul 2022 – Present

Software Engineer

Bangalore, Karnataka

- **PoE** : Led the implementation of the **Power over Ethernet (PoE)** for **Cisco IE 9300 and IE 3100**. Integral to this role developed critical functionalities such as **Port Priority, Policing, Load Shedding, Fast & Perp PoE**.
- Authored comprehensive documentation detailing key functionality implementations for team reference; managed knowledge transfer processes that made onboarding new engineers easier and **reduced training time required by 30%**
- **DBS** : Implemented Deployment-Based Sanity automation using Python and PyATS, **reducing manual effort by 40%** and enabling early detection of bugs, issues, and breakages during development.
- **IoT Sage Private GPT chatbot** : Tailored a Webex chatbot integrating Chat GPT's advanced capabilities using **Ollama 3.2 LLM** to process hardware/software specs and confidential documents.
- Boosted **user engagement by over 80%** and **saved 2 hours per week** per employee by simplifying access to critical information.
- **Cisco Terminal Inline AI Assistance** : Engineered an innovative terminal UI with **LLM** capabilities integrated within Cisco IOS console, enhancing **user interaction time by 25%** through iterative design improvements and user feedback.

Cisco Systems India Pvt Ltd

(6 Months) Jan 2022 – Jun 2022

Software Engineering Intern

Bangalore, Karnataka

- **IIoT Green Initiative Project** : Developed a Python automation script and Webex chatbot for lab device management, **reducing power consumption by 55%** and **improving user experience by 60%** through smart device control and exception handling
- **Code Coverage** : Utilized Grafana and Cerebro DevOps tools to perform the Code Coverage for all features in multiple Cisco Platforms and made the **code coverage reach 80%**.

Projects

SportEase Application | *DevOps, MERN Stack*

Apr 2021

- Developed SportEase web application using MERN stack **improving sports equipment availability by 10%** and **reducing administrative workload by 1 hour/day** through automated management systems.
- Implemented a scalable 3-tier architecture using **Ansible, Jenkins, and Docker**, reducing administrative workload by **1 hour daily**.

Smart Pi Camera | *Computer Vision, Raspberry Pi, Python*

Apr 2019

- Built an intelligent security camera system using Raspberry Pi that provides real-time movement alerts via email/SMS, securing **MP Government funding** for its advanced security features.

Achievements and Certifications

CCNA : Cisco Certified Network Associate (CISCO)

Aug 2022

- Demonstrated comprehensive expertise in computer network fundamentals through CCNA certification.

GATE CS 2020 (IIT Delhi)

Feb 2020

- All India Rank 616 and achieved 99.36 percentile.

MP Tech Innovation Challenge (RGPV Bhopal)

Apr 2019

- Achieved Runner-Up position in state-level competition for the 'Smart Pi Camera' project at RGPV University, Bhopal.