# Rahul Gopathi

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# EDUCATION

## Indian Institute of Technology, Jodhpur

Jodhpur, India

Bachelor of Technology - Artificial Intelligence & Data Science. CGPA: 6.81/10

Dec 2020 - May 2024

Courses: Data Structures and Algorithms, Deep Learning, DLOps, Dependable AI, Operating Systems, Database Management Systems

# SKILLS SUMMARY

• Languages: Python, Golang, C++, JavaScript, Typescript, HTML, CSS, Shell, SQL

• Development: React JS, Vue JS, Django, Node.js, Fast API, PostgreSQL, MongoDB, Redis, Firebase

• Cloud Computing: Kubernetes, Docker, AWS, Ansible, CI/CD, Nginx, OpenStack, JuJu

#### EXPERIENCE

5Point AI Labs
Bengaluru

• Software Development Engineer

June 2024 - Present

- Full-Stack Solution Design: Spearheaded the design and implementation of end-to-end full-stack solutions using
  modern technologies like Next.js, TypeScript, and FastAPI, delivering seamless user experiences and efficient,
  maintainable system operations.
- AI Agent Development: Engineered sophisticated AI agents leveraging LangChain and AutoGen, enabling dynamic and efficient text-to-video transformations tailored to diverse user requirements.
- **Performance Optimization**: Strategically optimized backend performance with **MongoDB** and **Redis**, reducing query times, enhancing data retrieval efficiency, and ensuring robust performance for high-traffic and data-intensive applications.
- Event-Driven Architecture: Implemented event-driven architecture by leveraging Redis Pub/Sub, facilitating real-time communication and enabling seamless integration of scalable microservices.
- Scalability and Deployment: Utilized Docker to containerize applications and streamline deployment processes across diverse environments, ensuring scalability, reliability, and minimal downtime during rollouts.
- Impact: Successfully guided a cutting-edge AI-driven product from concept to production, delivering an innovative, scalable solution that redefined video creation workflows and addressed critical user pain points.

## NTT Technocross

Yokohama, Japan (Onsite)

Jun 2023 - July 2023

Cloud Engineer Intern

- OpenStack Magnum Deployment: Successfully researched, configured, and deployed OpenStack Magnum to a test environment, making Kubernetes available as a service to streamline container orchestration and management.
- **High Availability (HA) Mode Deployment**: Deployed the system in **High Availability (HA)** mode, ensuring fault tolerance and reliability for critical operations. Developed and implemented **Ansible playbooks** to automate deployment processes, reducing manual effort and improving reproducibility.
- **Process Documentation**: Documented the entire deployment process, creating a comprehensive guide for future implementations and ensuring clarity for team members and stakeholders.
- Recognition and PPO Offer: Received a Pre-Placement Offer (PPO) for exceptional performance during the internship, demonstrating a strong ability to deliver impactful solutions and exceed expectations.

WiseOps Remote

Software Development Intern

Nov 2023 - Dec 2023

- AWS Resource Optimization: Developed JavaScript automation scripts to identify and remove unused AWS resources, including EC2 instances and EBS volumes, enhancing cloud resource management and efficiency.
- Cost-Saving Measures: Automated cost-reduction strategies by implementing features such as disabling fast snapshot restore and transitioning storage volumes from GP2 to GP3, achieving significant cost savings of up to 30%.
- Impact: Enabled substantial cost optimization in cloud expenditures, demonstrating expertise in leveraging automation to drive efficiency and reduce operational overhead.

### Projects

- **QAWS Price Database (Database Optimization, REST APIs)**: Developed a database system to query AWS metadata and pricing across regions with execution times under 50ms using optimized indexing. Designed REST API endpoints for efficient data retrieval and performance evaluation. **Tech**: FastAPI, MySQL, AWS Bulk Price API (Sep 2023)
- QIITJ Container as a Service (CaaS) (Containerization, Kubernetes, Web Development): Created a CaaS interface with Kubernetes APIs to simplify container deployment on bare metal, enabling direct deployment from GitHub, GitLab and advanced container management for developers. Tech: Kubernetes, React, Django, REST APIs (Jan 2023)

## ACHIEVEMENTS

2022 **DD Robocon** Scored **100**% with a team in Level 1 at national level

2021 INTER IIT 9.0 Secured 5th position with a team at Inter-IIT Tech Meet 9.0

2020 **JEE'20** Among top **0.5**% percentile of 1 million Applicants in JEE- 2020

## Position of Responsibility

2023 Festival Chief Prometeo Techfest, IIT Jodhpur

2022 **Student Coordinator** Devlup Labs, IIT Jodhpur