

Bhagya Vishwakarma

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SUMMARY

Backend developer with experience building scalable systems, real-time applications, and GenAI-based solutions. Strong in problem solving with exposure to distributed systems and system-level design.

EDUCATION

Indian Institute of Information Technology Dharwad

Dharwad, Karnataka

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.13

May 2027

EXPERIENCE

Yoliday LLP

Mar 2025 – Jul 2025

Full Stack Developer

Remote

- Integrated Strapi CMS to enable seamless and scalable content management across the platform
- Designed and implemented new features to improve user experience, navigation, and usability

Institute Website

May 2024 – Dec 2025

Developer

- Contributed to building a scalable CMS using Sanity.io to streamline content management workflows
- Took ownership of critical modules and applied efficient development strategies for rapid delivery

ACHIEVEMENTS

Hackathons: Winner (2x) – National Hackathons

CodeChef: Achieved 2 Star rating on CodeChef **Profile**

Competitive Programming: Solved 600+ problems across LeetCode, GeeksforGeeks, and CodeChef

Leadership & Clubs: Coordinator – CGC ; Member – Velocity (Development Club), Quantum Club

PROJECTS

K8sShield | K8s Attack Graph & Risk Engine | *Python, Kubernetes, Neo4j, NVD API*

GitHub

- Built a **graph-based security engine** modeling Kubernetes cluster as graph
- Analyzed and debugged communication between Pods and Services to identify relationships and exposure
- Detected critical attack paths using BFS/DFS from entry points to sensitive assets
- Developed an **interactive dashboard** to visualize high-risk nodes and attack paths

Swift-Route | *RabbitMQ, Redis, Docker, Nginx, Express, AWS, PostgreSQL, New Relic*

GitHub

- Built a containerized event-driven backend on AWS using Docker
- Designed an asynchronous pipeline using RabbitMQ for service communication
- Reduced database load with Redis caching and implemented rate limiting under high traffic
- Integrated APM (New Relic) and logging (Winston) for performance monitoring and observability

Sync-Space | *Next.js, WebRTC, Socket.IO, Prisma, PostgreSQL, Tailwind, JWT*

Live | GitHub

- Built a real-time collaborative platform featuring video conferencing and multiplayer gaming
- Enabled real-time communication with WebRTC (PeerJS) and Socket.IO

NetProbe | *C, Sockets*

GitHub

- Built a TCP port scanner using socket programming in C
- Identified open ports using connection attempts and basic networking concepts

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C, C++, SQL, Nix

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Prisma ORM, Tailwind CSS

AI / Machine Learning: RAG, Prompt Engineering, FAISS

Databases & Tools: PostgreSQL, pgvector, Neo4j (Graph DB), Git, Postman

DevOps & Cloud: Kubernetes (CNI, Services, Ingress), TCP/IP, HTTP/HTTPS, Load balancing, DNS, Docker, AWS, Nginx, RabbitMQ, Redis, GitHub Actions, Jenkins, New Relic, Grafana, Prometheus