

# G. Karthick

Pune, Maharashtra | 7824034918 | [0105karthick@gmail.com](mailto:0105karthick@gmail.com) | [GitHub](#) | [LinkedIn](#)

Final-year Computer Science student with hands-on experience in DevOps engineering, CI/CD automation, container orchestration, and full-stack development. Proficient in building production-grade applications with Docker, Kubernetes, GitHub Actions, and Infrastructure as Code. Strong foundation in C++, Python, OOP concepts, and Linux system administration.

## EDUCATION

### Symbiosis Institute of Technology

Bachelor of Technology in Computer Science Engineering

Pune, Maharashtra

May 2022 – May 2026

## TECHNICAL SKILLS

**Languages:** C++, Python, JavaScript, Java, SQL, Bash/Shell Scripting, HTML/CSS

**DevOps & Cloud:** Docker, Kubernetes, GitHub Actions, Ansible, Jenkins (familiar), GitLab CI/CD (familiar)

**Backend & Databases:** Node.js, Express, Python FastAPI, RESTful APIs, MongoDB, MySQL

**Tools & Platforms:** Git/GitHub, Linux/Unix, Postman, VS Code, Prometheus, Grafana, PM2

## PROJECTS

### Devcruite - Enterprise DevOps Platform | [GitHub](#)

- Architected production-ready CI/CD pipelines using GitHub Actions with automated builds, testing, and Docker image deployment across 4 workflow files (backend, frontend, full-stack, docker-compose integration)
- Containerized complete microservices application using Docker and docker-compose, orchestrating 5+ services including Node.js backend, React frontend, MongoDB, Prometheus, and Grafana with health checks and restart policies
- Deployed scalable Kubernetes cluster with 12+ manifests (deployments, services, ConfigMaps, secrets, PVCs, namespaces) implementing rolling updates, readiness/liveness probes, and zero-downtime deployments with 2-replica high availability
- Automated infrastructure configuration with Ansible playbooks for server provisioning, Node.js installation, user management, and PM2 process management on Linux/Unix systems
- Implemented monitoring stack with Prometheus metrics collection and Grafana dashboards for real-time application health tracking
- Tech:** Docker, Kubernetes, GitHub Actions, Ansible, Node.js, React, MongoDB, Python FastAPI, Prometheus, Grafana

### Hospital Management System | [GitHub](#)

- Developed object-oriented hospital management application in Java with role-based access control for doctors, nurses, administrators, and receptionists using OOP principles (inheritance, polymorphism, encapsulation)
- Designed normalized relational database schema with JDBC for transaction management, implementing CRUD operations across 8+ interconnected entities with prepared statements for SQL injection prevention
- Tech:** Java, JDBC, MySQL, OOP Design Patterns, Swing GUI

### IncuSight - ML Prediction Platform

- Built Flask-based startup success prediction platform with scikit-learn ML models and Power BI dashboards
- Implemented RESTful API endpoints with SQLite persistence and role-based authentication workflows
- Tech:** Python, Flask, scikit-learn, SQLite, Power BI

## EXPERIENCE

### Data Analysis Intern

Renu Sharma Healthcare and Education Foundation

April 2025 – July 2025

Remote

- Automated CSR data collection pipeline using Python scripts and Google Search APIs, processing 500+ company reports with PDF text extraction and structured data parsing
- Performed data analysis on company initiatives using Python libraries (pandas, numpy) to identify trends for stakeholder reporting and content strategy optimization

## CERTIFICATIONS & ADDITIONAL SKILLS

---

- FREE OpenCV Bootcamp – OpenCV University (Python Computer Vision)
- Intro to Machine Learning – Kaggle
- Introduction to Python – DataCamp
- Version Control: Git workflow, branching strategies, pull requests, code reviews
- Problem Solving: Data Structures (arrays, linked lists, trees), Algorithms (sorting, searching, DP)