G. Karthick

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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 — Pune, Maharashtra
Bachelor of Technology in Computer Science Engineering — *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 — April 2025 – July 2025
Renu Sharma Healthcare and Education Foundation — *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)