

# K Dhanush

Software Engineer

+91-9036966594 | kottedhanush06@gmail.com | Bengaluru, INDIA | Experience: 3 Years 5 Months

With 3.7+ years of experience, I am a dynamic Python Developer excelling in Flask, Django, and FastAPI for robust web app development. Proficient in AWS technologies - EC2, S3, and Lambda, I specialize in scalable solutions. My skills include data analysis using Pandas and NumPy, along with MySQL for database management. I am adept at API development, Git/Bitbucket for version control, and Agile collaboration using Jira and Confluence. Committed to delivering top-tier results, I have a strong track record in designing efficient software solutions. I am passionate about creating high-quality, impactful solutions.

## SKILLS

- Python
- Django
- Flask
- SQLAlchemy
- MySQL
- AWS S3
- Docker
- Linux & Shell Scripting
- Jira
- Swagger
- Agile/Scrum Methodology
- Multithreading & Multiprocessing
- Django REST Framework (DRF)
- Pandas
- Pytest
- Database Design & Optimization
- AWS EC2
- Kubernetes
- ERP System Development
- Confluence
- Microservices Architecture
- Python Object-Oriented Programming
- RESTful API Development
- FastAPI
- NumPy
- PostgreSQL
- AWS
- AWS Lambda
- Git
- Healthcare Information Systems
- GitHub
- API Authentication (JWT OAuth2)

## WORK EXPERIENCE

### Software Engineer - CitiusTech

Aug 2023 - Present

At CitiusTech, I design and develop scalable healthcare applications as part of the Health Care Information System (HCIS) — a full-featured hospital management platform encompassing in-patient, out-patient, billing, pharmacy, and reporting modules.

My primary focus is on building and optimizing secure, high-performance RESTful APIs using Django REST Framework, Flask, and FastAPI, ensuring seamless interoperability between internal modules and third-party healthcare systems. I collaborate with cross-functional teams across Product, QA, and DevOps to deliver robust releases in Agile sprints, leveraging AWS (EC2, S3, Lambda) for scalable deployment and automating CI/CD testing pipelines for quality assurance.

Technologies: Python, Django REST Framework, Flask, FastAPI, PostgreSQL/MySQL, AWS (EC2, S3, Lambda), Docker, Git, Jenkins, Agile/Scrum.

#### Responsibilities & Achievements:

- Developed and deployed API-driven patient management workflows (admission, discharge, records), improving hospital efficiency and data accuracy.
- Integrated billing and pharmacy modules with automated alerts, approval workflows, and real-time analytics dashboards.
- Built reusable, secure backend components following Django REST best practices with comprehensive unit, integration, and load testing coverage.
- Optimized reporting performance using query tuning and API caching strategies for faster insights.
- Actively contributed to Agile ceremonies (sprint planning, daily stand-ups, retrospectives) to ensure smooth coordination and iterative delivery.

### Trainee Software Engineering - Qess Corp

Aug 2022 - Jul 2023

Developed a comprehensive web-based ERP application using Django to streamline and automate inventory tracking, procurement, and order management processes. The system empowers administrators to manage stock levels, handle supplier operations, process purchase orders, and generate real-time analytical reports for data-driven decision-making.

Technologies: Python, Django, Flask, FastAPI, MySQL, Pandas, NumPy, AWS, Docker, Git

Roles & Responsibilities:

- Designed and implemented scalable ERP and HCIS modules leveraging Django ORM, Python, and RESTful APIs.
- Built automated inventory, procurement, and patient management workflows to enhance operational efficiency.
- Developed interactive dashboards for real-time insights, analytics, and exportable data (CSV, Excel).
- Performed system customization, debugging, and performance optimization for better stability.
- Collaborated in Agile sprints with cross-functional teams using Git, Docker, and AWS for version control and deployment.

## EDUCATION

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2022   **B.Tech/B.E. | Electronics And Communication Engineering**  
Sreenivasa Institute of Technology and Management Studies,  
Chittoor

## ADDITIONAL INFORMATION

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**Languages:** English, Hindi, Telugu, Tamil