

Vishnu K

Software Developer | Full-Stack & AWS DevOps Exposure

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PROFESSIONAL SUMMARY

Software developer with hands-on experience building backend systems, REST APIs, and containerized applications using Python, Django, and Flask. Worked on full-stack and cloud-deployed projects involving authentication workflows, RBAC, CI/CD pipelines, Docker, and AWS services. Internship experience in Django REST API development and backend workflows. Interested in backend engineering, cloud-aware application development, and modern software deployment practices.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Java, PHP, C, C++

Backend: Flask, Django, Django REST Framework, REST APIs, JWT Authentication, RBAC

Frontend: React.js, HTML5, CSS3, Tailwind CSS, Bootstrap

Databases: MySQL, MongoDB, Firebase, DynamoDB

Cloud & AWS: EC2, ECS, S3, IAM, Lambda, RDS, CloudWatch, CloudFormation, CodePipeline, CodeBuild, API Gateway, AWS CLI

DevOps & CI/CD: Docker, Docker Compose, Kubernetes (basic), Jenkins, GitHub Actions, Terraform (basics), Prometheus, Grafana

Security: Keycloak, JWT, AES-256, TLS, OWASP Top 10 awareness, IAM policies

Tools: Git, GitHub, Postman, VS Code, Linux, Vercel, Netlify, Supabase, Antigravity, Codex, ClaudeCode

EXPERIENCE

Python Django Intern — Luminar Technolab, Kochi

January 2025 – April 2025

- Developed and tested Django REST API endpoints for a backend application, covering CRUD operations and authentication flows.
- Implemented JWT-based authentication and role-based access control (RBAC) middleware to secure API resources.
- Integrated MySQL database models and wrote optimized queries for data retrieval and user management.
- Used Postman to design and document test cases for all API endpoints, ensuring coverage across success and error paths.
- Collaborated on middleware handling, custom error responses, and input validation for production-quality API behavior.

Freelance Web Developer — Independent Clients

2025 – Present

- Delivered responsive UI improvements, WordPress customization, and deployment support for institutional websites including lead.ac.in, stthomascollegekonni.com, and pims.ac.in.
- Managed theme customization, plugin configuration, content administration, and PHP-based functionality for live web platforms.

PROJECTS

Secure Health API — Secure Microservices & Backend Security Platform

Stack: Python, Flask, MySQL, Docker, Docker Compose, Jenkins, JWT, Keycloak, AES-256, TLS, pytest, Linux

- Designed a healthcare-focused backend API with JWT authentication and Keycloak-managed role-based access control (RBAC) to simulate secure medical data access patterns.
- Implemented AES-256 encryption for sensitive data fields and enforced TLS on all API routes to meet security baseline requirements.
- Containerized all services with Docker and Docker Compose, enabling consistent local development and reproducible deployment environments.
- Built a Jenkins CI/CD pipeline automating build, test, and deployment stages with pytest for automated API validation.

GitHub: <https://github.com/vishnucax/secure-health-api>

Smart E-Commerce Platform — Event-Driven Microservices Architecture

Stack: React, Flask, MySQL, RabbitMQ, Docker, Docker Compose, REST APIs

- Architected a microservices-based e-commerce backend with separate inventory, cart, payment, and discount services communicating via RabbitMQ message queues.
- Implemented asynchronous event-driven workflows for order processing and inventory synchronization, decoupling services for independent scalability.
- Orchestrated all services using Docker Compose with defined service networking, enabling multi-container local deployment.
- Built a React frontend integrated with REST APIs, connected to the Flask-based backend services.

GitHub: <https://github.com/vishnucax/smart-ecom>

FixitNow — Home Service Marketplace Platform

Stack: Django, Django REST Framework, MySQL, Razorpay, Bootstrap, Vercel

- Built a multi-role service marketplace with distinct customer, service provider, and admin workflows, using Django REST Framework with RBAC.
- Integrated Razorpay payment gateway with webhook handling to process booking payments and trigger real-time status updates.
- Developed scheduling and booking management features with an admin dashboard for provider and order oversight.

GitHub: <https://github.com/vishnucax/fixitnow-home-service-providing-platform>

Live Demo: <https://fixitnow-home-service-providing-pla.vercel.app/>

LeadConnect — Campus Video Calling Platform

Stack: React, JavaScript, WebRTC, Vercel

- Developed a campus-focused video calling platform with random user matching and browser-based communication workflows.
- Integrated WebRTC-based real-time video communication and deployed the frontend using Vercel.
- Built responsive frontend interfaces and managed connection flow handling for live interaction.

GitHub: <https://github.com/vishnucax/leadconnect>

Live Demo: <https://campusconnect-frontend-beta.vercel.app/>

EDUCATION

Master of Computer Applications (MCA) — Advanced Cloud Technologies

LEAD College (Autonomous), Palakkad | University of Calicut

2025 – 2027 (Expected)

Bachelor of Computer Applications (BCA) — Cloud Computing, Cyber Security & Ethical Hacking

Srinivas University, Mangalore

2022 – 2025 | CGPA: 7.09 / 10

Higher Secondary (XII)

BARHSS Bovikana, Kasaragod | Bio-Science | 72%

SSLC (X)

CHSS Chattanchal, Kasaragod | 96%

CERTIFICATIONS

- Microsoft — Build Computer Vision App with Azure
- Google — Foundations: Data, Data, Everywhere
- Infosys Springboard — Website Design & Development
- Offenso Hackers Academy — Ethical Hacking Starter Program
- Intel & CBSE — AI Aware Badge
- Srishti Innovative — React JS Development
- Srishti Innovative — Flutter Development

ACHIEVEMENTS & LEADERSHIP

- **Hackathon Winner — Getwork Hackathon 2025 (1st Place):** Built a Smart OPD Management System within 24 hours, delivering a functional healthcare workflow prototype under competitive conditions.
- **National Seminar Paper Presentation – University of Calicut, 2026.**
- **Research Publication:** "From CV to Digital Footprint: Expanding Criteria for Employability in the AI Era" — explores modern employability signals beyond traditional resumes.
- **Platoon Commander — Bharat Scouts & Guides:** Led a platoon, demonstrating organizational and team leadership skills.