*Last updated in June 2026*

# Pranav K Dileep

Computer Science and Engineering (Cyber Security)

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## Summary

Computer Science and Engineering (Cyber Security) graduate passionate about building secure, scalable systems. Experienced in developing websites and Android applications. Strong interest in backend engineering, networking, and security research, with the ability to learn new technologies quickly.

## Education

**University College of Engineering, Thodupuzha**, B.Tech in Computer Science and Engineering (Cyber Security) – Kerala, India — Aug 2022 – May 2026

- CGPA: 8.09 / 10

**Higher Secondary Education (12th – Computer Science)**, Higher Secondary in Computer Science – Kerala, India — June 2020 – Mar 2022

- Percentage: 82%

## Projects

**Deployer (Vercel, coolify alternative)** — Jan 2025 – present

- Self-hosted Docker-based hosting control panel to manage web applications, services, databases, logs, and deployments from a clean web UI.
- Utilized Docker and Nixpacks to build container images.
- Open-source project with 50+ GitHub stars
- GitHub: https://github.com/pranavkdileep/Deployer

**Study Note AI Agent** — Feb 2025 – present

- Developed an AI agent to generate comprehensive study notes from textbooks and images using OpenAI LLMs.
- Integrated DeepSeek OCR for high-accuracy parsing of complex textbook layouts and document images.
- Utilized Vectorless RAG for document indexing and management to streamline the note-generation workflow.
- Link: https://www.ktucyber.com/agents

**DDoS Attack Detection Using Hybrid Deep Learning Model** — Jan 2025 – present

- Designed a hybrid deep learning model combining CNN, LSTM, and Autoencoder for DDoS attack detection.
- Applied CNN to capture spatial patterns and LSTM to model temporal dependencies in traffic flows.
- Processed network flow data using a custom CICFlowMeter implementation in Go.
- Used CIC-DDoS2019 Dataset
- GitHub: https://github.com/pranavkdileep/CICFlowMeter-Go

**Real-Time Bus Tracker with GPS** Jan 2025 – Jan 2025

- End-to-end real-time bus location tracking system with Android apps, backend services, and custom IoT hardware.
- User and conductor Android apps built with Kotlin & Jetpack Compose
- Custom IoT tracking device using ESP8266 and GPS module
- WebSocket for real-time location updates

**JobInPark** May 2025 – present

- AI-driven job discovery platform connecting tech park professionals with relevant openings through skill and domain matching.
- Built with Next.js, React, TypeScript, Tailwind CSS v4, and MongoDB 7 production-deployed at jobinpark.eu.cc
- Designed a workflow-driven notification system that orchestrates multi-user, multi-channel job alert dispatch using the workflow SDK.
- Multi-channel notification system dispatching matched jobs via Email (Resend), Telegram bot, and WhatsApp each channel handled as a step in a coordinated workflow.
- Implemented JWT auth with httpOnly cookies, admin analytics dashboard, bulk job upload, and Docker Compose local dev setup.
- GitHub: https://github.com/pranavkdileep/jobinpark

**Self-Hosted UPI Payment Gateway** Jan 2026 – Jan 2026

- Built a custom UPI payment gateway using Cloudflare Workers, D1, KV, Hono, and email-based transaction processing.
- Automated real-time payment verification, order matching, timeout handling, and secure webhook delivery without third-party payment APIs.
- Developed authenticated REST APIs and an operator dashboard for managing payments, orders, configuration, and system activity
- GitHub: https://github.com/pranavkdileep/simple-upi-payment-gateway

**KTUcyber.com** Jan 2024 – Jan 2024

- Community platform for students to share study materials and collaborate.
- Authentication, email verification, CRUD operations
- Bookmarking and follow/following system
- GitHub: https://github.com/pranavkdileep/ktucyber2.0

**CampusTracker** Dec 2023 – Jan 2024

- Developed an Android client application for a cloud-based student management system, enabling seamless interaction with backend APIs.
- Integrated RESTful APIs using OkHttp for efficient and reliable network communication.
- Developed features for downloading academic resources and managing student-related data in real time.
- Collaborated with backend services (CampusTracker Cloud backend) for full-stack system integration.

## Skills

**Programming & Tools:** Python, C++, Go, Java, JavaScript, TypeScript, Git

**Cloud & DevOps:** Docker, self-hosted infrastructure, backend deployment, service monitoring, containerized environments

**Soft Skills:** Problem-solving, analytical thinking, adaptability, teamwork, communication, quick learning ability, time management

**Languages:** English and Malayalam (read, write, speak)