

Allen Bobby

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Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C/C++, Java, HTML5, CSS3

AI/ML: LangChain, LangGraph, Local LLMs, NLP, RAG Systems, Agentic Workflows, TensorFlow

Backend: FastAPI, Node.js, Flask, PostgreSQL, Redis, InfluxDB, RESTful APIs, Microservices

Frontend: Next.js, React, TailwindCSS, Server-Side Rendering, Responsive Design

DevOps: Docker, Git, CI/CD, Google Cloud Platform, Vercel, OAuth2, JWT Authentication

Professional Experience

AI Engineer

Oct 2025 – Present

Eallisto Labs

Kozhikode, Kerala

- Spearheaded production AI agents using LangGraph, slashing cloud API costs by 70% through local LLM optimization
- Engineered India's first private API service (digipin.dev) for DigiPin postal algorithm with 99.9% uptime and sub-50ms latency
- Designed JWT-based authentication framework enabling enterprise integration for national postal logistics systems

AI Product Engineer Intern

Jun 2025 – Oct 2025

EalSuite, Eallisto

Kozhikode, Kerala

- Delivered ERP data analyst agent processing 100K+ financial transactions daily with 95% accuracy, transforming multi-hour analysis into real-time insights
- Implemented Redis caching layer with FastAPI backend, driving 60% API cost reduction and 40% faster queries for 500+ users
- Authored JavaScript SDK facilitating seamless third-party integrations with automated analytics dashboard

NLP Research Intern

May 2025 – Jul 2025

Indian Institute of Information Technology, Kottayam

Kerala

- Pioneered Orbital AI framework with 7-node LangGraph workflow, cutting LLM inference overhead by 50% through pipeline optimization
- Orchestrated integration of 16 Google Workspace APIs using OAuth2, enabling autonomous automation with 92% task completion rate

Web Developer

Jan 2025 – Mar 2025

Cek Lumiere National Festival

Kerala

- Launched Next.js platform managing 5000+ registrations with dynamic scheduling, sustaining 99.9% uptime during peak traffic

Key Projects

KSEB Smart Meter Dashboard | Winner: *iHack 2025*

Aug 2025

Next.js, FastAPI, InfluxDB, Docker, Machine Learning

- Architected multi-tier monitoring solution with AI-driven analytics and DLMS protocol emulation for 32 meters across 8 districts
- Formulated predictive maintenance algorithms and demand forecasting models, projecting 30% energy conservation potential

Remote CAN Bus Analytics Dashboard | Winner: *HACKEFX National 2025*

Mar 2025

IoT Protocols, Real-time Streaming, ML Anomaly Detection

- Constructed vehicle diagnostics platform with ML-based anomaly detection for proactive fleet maintenance, securing 1st place among 300+ teams

DigiPin Developer Platform – Commercial Postal API

Oct 2025

Next.js, Convex, Redis, Docker, JWT, Multi-Region Deployment

- Established India's first private API marketplace for DigiPin algorithm with enterprise-grade security, handling thousands of daily requests

Emergency Flood Response System

Sep 2025

React Native, FastAPI, BLE, Wi-Fi Mesh, LoRa Gateway

- Engineered offline-first disaster management app with AI insights, mesh communication, and QR-enabled safe house coordination

Education

Bachelor of Technology in Computer Science

Sep 2022 – May 2026

College of Engineering Kidangoor

Kottayam, Kerala

100x Devs Cohort 3.0 – Full-Stack & Web3

Sep 2024 – Present

100x Devs Academy

Awards & Leadership

National Hackathon Champion (HACKEFX 2025) – 1st place among 300+ teams, 30K prize | **State Winner (iHack 2025)**

| **Tinkerhub Facilitator** – Mentored 100+ developers (2022-2024)