

# 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)