KANNADHASAN K

Full Stack Developer · IoT Enthusiast · AI Integrator

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PROFESSIONAL SUMMARY

Results-driven Full Stack Developer with 2.5 years of professional experience at Nebeskie Labs Pvt Ltd, progressing from UI Developer to full-stack ownership. Proficient in building responsive, high-performance front-end applications using React and Next.js, and robust back-end systems with Node.js, Express, and PostgreSQL. Experienced in third-party API integrations, automated data pipelines, and leveraging AI/LLM tools in production. Passionate about IoT systems and MQTT-based real-time architectures, with a strong desire to bridge software and connected hardware.

WORK EXPERIENCE

Full Stack Developer | *Nebeskie Labs Pvt Ltd* 2022 – Present | 2.5 Years
Chennai, Tamil Nadu, India · Full-time

– Developed and maintained multi-module enterprise web applications including Energy Management Systems (EMS) and Digital Twin platforms using React, Node.js, and PostgreSQL.
– Implemented JWT-based authentication with role-based access control (RBAC) for secure, multi-tenant platforms serving enterprise clients.
– Built a WhatsApp Business communication layer using Twilio API — enabling automated notifications, two-way messaging, and real-time workflow triggers.
– Engineered Python-based data science pipelines and cron-scheduled batch processing servers for large-scale analytics, predictive reporting, and automated data workflows.
– Integrated AI and LLM tools (Claude, ChatGPT, Gemini) and automation platforms (n8n, Make) into production workflows to streamline business operations.
– Worked with MQTT protocol for IoT data ingestion and real-time data streaming within the Digital Twin ecosystem.
– Started as a UI Developer with a strong HTML/CSS/React focus; rapidly expanded into full-stack responsibilities within 6 months.

KEY PROJECTS

Enterprise Dashboard Ecosystem | *EMS & Digital Twin* Nebeskie Labs
– Architected a comprehensive multi-app dashboard platform for enterprise clients, covering Energy Management Systems and Digital Twin modules.
– Designed JWT-secured authentication, role-based access, and real-time visualisation dashboards with Node.js, React, and PostgreSQL backends.
Tech Stack: React · Node.js · PostgreSQL · JWT · REST API · Digital Twin

WhatsApp Business Integration | *Twilio API* Nebeskie Labs
– Built an end-to-end WhatsApp communication layer enabling automated notifications, two-way messaging, and workflow triggers via Twilio's Messaging API.
– Integrated directly into existing enterprise applications with webhook-driven event handling and REST API design.
Tech Stack: Twilio API · Node.js · Webhooks · REST API · Automation

Data Science & Batch Processing Pipelines | *EMS / Digital Twin*Nebeskie Labs
  – Engineered Python-based data science pipelines with MQTT-connected data ingestion for real-time IoT data processing.
  – Cron-scheduled batch servers handle large-scale analytics, automated reporting, and predictive data modelling for Digital Twin clients.

Tech Stack: Python · MQTT · Cron Jobs · Data Science · PostgreSQL · Batch Processing

EDUCATION

Bachelor of Engineering — Computer Science & Engineering | *Sureya College of Engineering*Graduated

Affiliated with Anna University, Tamil Nadu, India

CERTIFICATIONS

✓ **Python Programming** — GUVI · IIT Madras Research Park Certified
✓ **Full Stack Development with Python** — Besant Technologies Certified

TECHNICAL SKILLS

Frontend: React · Next.js · TypeScript · JavaScript · HTML5 · CSS3
Backend: Node.js · Express.js · Java · Spring Boot · Python · REST API
Database & Cloud: PostgreSQL · AWS · Docker · DevOps · Linux
IoT: MQTT · Digital Twin · Real-time Data · Sensor Integration
AI & Automation: Claude (Anthropic) · ChatGPT / OpenAI · Gemini · n8n · Make (Integromat)
Tools: Git · GitHub · VS Code · Postman · Jira

ADDITIONAL INFORMATION

SOFT SKILLS
• Problem Solving & Analytical Thinking
• Team Collaboration & Communication
• Self-motivated & Fast Learner
• Detail-oriented & Quality Focused
• Ownership & End-to-end Delivery

LANGUAGES
English — Professional Proficiency
Tamil — Native / Full Proficiency

INTERESTS
• Internet of Things (IoT) Systems
• AI & Prompt Engineering
• Workflow Automation