

AVINASH CHADALAVADA

Applications, Cloud & Data Principal Engineer & Manager

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PROFESSIONAL SUMMARY

Dynamic Technical Manager with 10+ years of expertise spanning IoT architecture, cloud platforms, web technologies, and embedded systems. Passionate about developing scalable IoT solutions, optimizing device-to-cloud data pipelines, and leading teams to build secure, high-performance applications.

- IoT Strategy & Architecture: Designed robust IoT ecosystems using AWS IoT, Azure IoT, and OpenWRT
- Cloud & DevOps for IoT: Implemented Kubernetes, Docker, LXDE, and serverless frameworks
- Data Engineering & AI: Certified in Databricks Data Engineering, ML, and Generative AI
- Web & API Development: Built React-based dashboards and secure REST APIs
- Embedded Systems & Networking: OpenWRT, MQTT, LoRa, Zigbee, BLE, WiFi Mesh
- Leadership: Managed globally distributed teams up to 20+, agile delivery

KEY SKILLS & TECHNOLOGIES

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|------------------|--|
| IoT Protocols | MQTT, CoAP, LoRa, Zigbee, BLE, Wi-Fi HaLow |
| Edge Computing | OpenWRT, Azure IoT Edge, AWS Greengrass, OTA Updates |
| Cloud Platforms | AWS IoT Core, Azure IoT Hub, Google IoT, Kubernetes, Docker |
| CI/CD | Jenkins, GitHub Actions, CloudFormation, Copilot |
| Frontend | React, TypeScript, Flutter, Material UI |
| Backend | Node.js, Express.js, FastAPI, Python |
| Databases | PostgreSQL, MySQL, Elasticsearch, Cassandra, TimescaleDB, InfluxDB |
| APIs & Analytics | REST, GraphQL, Kafka, Databricks, Tableau |

PROFESSIONAL EXPERIENCE

Head of Engineering | [Circle Digital Ventures](#)

5 Months | Global Team: 20 Members

Project: *IoT-enabled Safety Smart Watch with PTW*

- Led and scaled engineering team to build high-quality, reliable applications
- Architected scalable, secure, and high-performance systems
- Streamlined engineering processes to boost efficiency and delivery speed
- Fostered a culture of ownership and cross-functional collaboration
- Contributing to development of AI and Data journey

Tech: [React.js](#), [Node.js](#), [GraphQL](#), [Kafka](#), [Zookeeper](#), [AWS](#), [Azure](#), [Databricks](#)

Engineering Manager — Web, Cloud & Data Science | [Vantiva](#)

3.5 Years | Global Team: 13 Members

Project: IoT-enabled Smart Warehouse & Wi-Fi Mesh Systems

- Led end-to-end IoT system architecture with edge computing, cloud analytics, and real-time telemetry
- Key founding team member (initially 5), involved in strategic planning and team expansion
- Designed AI/ML flow using Gradient Boosting Residual Correction and Prophet models
- Built data engineering pipeline with Databricks
- Improved frontend performance & accessibility, reducing load time by 40%
- Optimized embedded Linux firmware (OpenWRT, UCI, UBus) for IoT device connectivity

Tech: React.js, TypeScript, Kafka, Node.js, Python, OpenWRT, AWS, Azure, Databricks

IoT Solutions Lead | [Cognizant](#)

1 Year | Team: 9 Members

Project: Cloud migration of medical device monitoring platform

- Redesigned legacy IoT architecture for cloud-based remote patient monitoring
- Designed high-performance APIs and microservices architectures
- Implemented AWS IoT rules and SNS-based alerting for proactive maintenance
- Converted streaming data from Kinesis to device data pipelines

Tech: AWS, ThingWorx, REST APIs, Serverless, Kubernetes

Web & IoT Consultant | [Deloitte](#)

13 Months

Project: Manufacturing Command Centre & Industry 4.0 Strategy

- Developed React.js front-end for real-time IoT monitoring
- Built serverless APIs using Express.js & AWS Lambda
- Defined IoT adoption strategy for Adani Solar Power Plants

Tech: React.js, Express.js, AWS Lambda, IoT

IoT & Cloud Developer | [Accenture](#)

7 Months | Client: J&J; Medical

Project: Remote Monitoring for Surgical Equipment

- Built React-based device dashboard with real-time telemetry
- Developed REST APIs & integrated with Azure IoT; deployed with Docker & Kubernetes

Tech: Azure IoT Edge, React, Docker, Kubernetes

Web & IoT Solution Engineer | [TCS](#)

2.5 Years | Clients: PepsiCo, Voltas

Project: Smart Factory & Energy Monitoring IoT Solutions

- PepsiCo: Developed ThingWorx-based predictive maintenance for factory equipment
- Voltas: Designed IoT-based energy tracking for chillers & AHUs with edge-to-cloud integration

Tech: ThingWorx, IoT, Dashboards, Edge Computing

EDUCATION

Bachelor of Technology in Mechatronics — SASTRA University (2011–2015)

CERTIFICATIONS & TRAINING

- Certified AWS & Azure Cloud Developer

- Certified Databricks Data Engineer
- Certified MERN Stack Developer
- Certified ThingWorx Professional
- Certified Tableau Professional
- REST API Design & Security Best Practices
- Cloud-Native Web Development with AWS & Kubernetes
- University Collaboration & Research in IoT & AI