Tanya Wilson

IoT Software Engineer

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SKILLS

Python • FastAPI • PostgreSQL • Docker • REST APIs • MQTT • Kubernetes • Docker Compose • SQL • GitHub Actions • Linux / Unix • PyTest

EXPERIENCE

IoT Software Engineer — TechNest IoT Labs
March 2023 – Present
Led design and implementation of IoT backend services using Python, FastAPI, and PostgreSQL for device metadata and telemetry. Containerized services with Docker and automated deployments via CI/CD pipelines, enabling reliable releases and faster device onboarding. Improved API response times by 35% and reduced error rate by 20% through code optimizations and comprehensive automated tests.

IoT Software Engineer — Innovex Solutions
July 2020 – February 2023
Implemented data ingestion and processing pipelines for IoT sensor streams with Python and FastAPI. Designed scalable PostgreSQL schemas for device state and historical telemetry and exposed REST APIs consumed by dashboards. Dockerized microservices and established CI processes, improving deployment stability and reducing rollout time by 40%.

Junior IoT Developer — DeltaTech Systems
June 2018 – June 2020
Built MQTT-based data collection services and Python microservices for telemetry, ensuring reliable device communication. Created relational data models in PostgreSQL and optimized queries for high-volume IoT workloads. Collaborated in cross-functional scrum teams and maintained documentation, tests, and source control in Git.

EDUCATION

Bachelor of Science in Computer Science
West Nicholasbury University
Graduated: 2016