



Yvonne Nichols

Senior IoT Software Engineer

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SKILLS

TypeScript • React • Node.js • PostgreSQL • MQTT • RESTful APIs • GraphQL • Docker •
Kubernetes • GitHub Actions • Cloud IoT integration (AWS/Azure) • Jest • Real-time dashboards •
Security best practices

EXPERIENCE

Senior IoT Platform Engineer — NovaLink Systems

June 2024 – Present

Led design and implementation of a scalable IoT platform using TypeScript, Node.js, and PostgreSQL, supporting 1.5M devices with sub-200ms API latency. Built React-based dashboards for real-time telemetry and device management, achieving 99.98% uptime and reducing data processing latency by 40%. Implemented containerized microservices with Docker and Kubernetes and established CI/CD pipelines (GitHub Actions), cutting release cycle from 14 days to 3 days.

Senior IoT Software Engineer — Orbital Edge Labs

April 2021 – May 2024

Developed backend services in Node.js with PostgreSQL and MQTT for device messaging, increasing throughput by 60% and improving delivery reliability to 99.9%. Led frontend development for a React-based device management console, delivering a 25% reduction in operator time through improved UX. Modernized deployment with Docker and Kubernetes and migrated to a cloud-native architecture, reducing deployment time by 70%.

IoT Software Engineer — TechPulse Innovations

February 2019 – March 2021

Built full-stack provisioning and telemetry apps using TypeScript (Node.js backend, React frontend) and PostgreSQL; cut device provisioning time by 30%. Designed RESTful APIs and real-time dashboards to enable proactive device management. Introduced automated tests and monitoring, reducing incident rate by 20%.

EDUCATION

M.S. in Computer Science

Techvale University

Graduated: 2016