

ERIC DARKO

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IoT & Cloud Software Developer | React + Node.js + Embedded Systems | Edge-to-Cloud
Integrations

PROFILE

Innovative IoT and cloud developer with hands-on experience building end-to-end systems — from edge devices to cloud platforms. Skilled in real-time data pipelines, device integration, containerized deployments, and secure APIs. Passionate about creating scalable and reliable systems for production environments.

TECHNICAL SKILLS

- Languages: Python, JavaScript/TypeScript, SQL, C/C++, Java, Kotlin, Bash
- Frameworks & Tools: Node.js/Express, React + Vite, Socket.IO, REST, Docker, Git, Cloudflare, VNC
- Cloud & Messaging: AWS (SNS, EC2), HTTPS/TLS, WebSockets, MQTT (basic)
- Data & Databases: MariaDB/MySQL, PostgreSQL, ER modeling, migrations, indexing
- Networking & IoT: Embedded systems, IoT security, TCP client/server
- Automation: QR encoding & labeling, device printing integration, workflow optimization

KEY ACHIEVEMENTS

- 🏆 Built and deployed 3 full-stack IoT systems serving 200+ users across multiple cities.
- ⚡ Reduced HR logging errors by 40% and automated payroll processing time by 50%.
- 🌐 Integrated industrial printers and real-time cloud notifications with AWS SNS.
- 🚀 Deployed containerized systems on Raspberry Pi and custom domains using Cloudflare.

SELECTED PROJECT EXPERIENCE

Juice Processing & Pickup Platform — Savonia / Mehustaja | 2025

- Built a production workflow app for apple-juice processing across multiple Finnish cities (React + Vite, Node.js/Express, MariaDB).
- Implemented QR-based scanning, city-aware logistics, and automated AWS SNS notifications.

- Designed relational DB schema (Customers, Orders, Boxes, Pallets, Shelves) and status engine.
- Integrated TCP communication with industrial printer for labeling and expiry dates.
- Deployed containerized system on Raspberry Pi with custom domain and remote ops.

HR Management Web App — KNK Palvelut Oy | 2024–2025

- Developed and launched an HR app for 200+ employees, reducing manual logging errors by ~40%.
- Automated payroll export and implemented role-based access control for secure data handling.
- Optimized company website, boosting monthly visitors by 500 and generating 15 customer conversions.

Donations & Outreach Site — Charity Z | 2024

- Built a full-stack platform with React + TypeScript + Vite, Tailwind, and Supabase backend.
- Integrated Paystack for secure donations with webhook ingestion and receipt generation.
- Implemented an AI chatbot using OpenAI to assist donors in real time.

PROFESSIONAL EXPERIENCE

Data Management & Analysis — Safeline LLC, Massachusetts, USA | Oct 2021 – May 2023

- Implemented automated email feedback system, improving customer return rates by 25%.
- Built dashboards for real-time scheduling, reducing missed appointments by 35%.
- Created centralized transactions database with automated reporting.

EDUCATION

Savonia University of Applied Sciences — B.Eng. in Information Technology (IoT) | Kuopio, Finland | Expected Dec 2025

- Focus: Embedded Systems, Networking, Cloud & IoT Security
- Progress: 198/240 ECTS

ADDITIONAL

- Methodologies: Agile/Scrum, code reviews, CI/CD basics
- Languages: English (Fluent), Finnish (Basic), French (Basic)
- Open Source & Portfolio: github.com/edarko265