

SHANE WILLIAMS

Senior Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Senior Full-Stack Software Engineer with 5+ years of experience architecting and delivering enterprise-grade production systems. I bring a proven track record of building scalable IoT platforms, internal tooling, and microservices. Currently leading technical initiatives at ResourceKraft, processing real-time data from thousands of IoT devices. Previously contributed to BioRender's growth, building tools that support 4M+ scientists globally. Passionate about developer experience, clean architecture, and systems that scale.

TECHNICAL SKILLS

Languages & Frameworks

TypeScript, JavaScript, Go, React, Next.js, Node.js, Express, Fastify

Databases & Storage

PostgreSQL, MongoDB, MySQL, Redis, InfluxDB

Cloud & DevOps

AWS, GCP, Docker, Nginx, Turborepo, Git, CI/CD

Specialized

MQTT, Keycloak, Grafana, Real-time Systems, IoT

PROFESSIONAL EXPERIENCE

ResourceKraft & Full Stack Energy

April 2024 – Present

Senior Full-Stack Software Engineer

Architecting and developing enterprise IoT energy management platforms. Building real-time monitoring systems for geothermal and EV charging infrastructure using TypeScript, Go, and modern cloud technologies.

- Architected full-stack IoT monitoring platform with real-time data visualization using Grafana and InfluxDB
- Built Go microservices for high-throughput alert processing and MQTT message handling
- Developed TypeScript/Fastify API with complex PostgreSQL queries for time-series energy data
- Implemented enterprise auth with Keycloak SSO across multiple applications
- Optimized EV smart charging algorithms, reducing energy waste by 15%
- Set up Turborepo monorepo with shared packages for consistent code across apps

TypeScript

Go

React

Next.js

Fastify

PostgreSQL

InfluxDB

MQTT

Docker

Keycloak

Grafana

BioRender

January 2021 – June 2024

Software Engineer

Full-stack development for a leading scientific illustration platform. Built internal tools and microservices to support rapid growth from startup to enterprise scale.

- Developed 40+ internal tools and features, streamlining operations across multiple teams

- Automated core business processes, reducing manual workload by 30%
- Implemented microservices using GCP and RESTful APIs, enhancing system scalability
- Collaborated with cross-functional teams to ship features used by 4M+ scientists

TypeScript

React

Node.js

GCP

MongoDB

Redis

Express

OPEN SOURCE & SIDE PROJECTS

- **react-simple-devicons** – React library providing SVG icons for developer tools and technologies
- **ponokai** – Vim/Neovim color scheme with 10+ GitHub stars
- **dev-portfolio** – Full-stack portfolio template with Three.js, React-Redux, and TypeScript
- Supported small businesses with cost-effective full-stack web solutions

EDUCATION & CONTINUOUS LEARNING

Self-directed learning through building production systems, open-source contributions, and staying current with modern development practices. Strong foundation in software architecture, system design, and full-stack development.