

SHANE WILLIAMS

Senior Full-Stack Software Engineer

Ireland (Remote Worldwide) • shane@shawilly.dev • +353 83 362 6936 • [LinkedIn](#) • [GitHub](#)

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
- **shell-quest** – Pirate-themed kids CLI learning game in Go (Bubble Tea TUI, SQLite, sandboxed shell, 17 real commands)
- Supported small businesses with cost-effective full-stack web solutions

EDUCATION

Atlantic Technological University

BSc (Honours) Medical Biotechnology

Algonquin College of Applied Arts and Technology

Advanced Diploma, Biotechnology

Algonquin College of Applied Arts and Technology

Advanced Diploma, Computer Science Engineering