SAM WILLIAMSON

Full Stack Developer

CONTACT

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github.com/samw0907

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SKILLS

Languages & Platforms

- JavaScript, TypeScript, Node.js HTML, CSS, SQL, Java, Tailwind

Frameworks & Libraries

- React, Express, Apollo Client, Apollo Server, Sequelize, GraphQL, Vite

Databases

- PostgreSQL, MongoDB

Testing

- Vitest, Jest, Playwright

Tools & DevOps

- Docker, GitHub Actions, Fly.io, Postman, ESLint

EDUCATION

Full Stack Open

Helsinki University 2025

Bachelor of Earth Science with Honours

University of Glasgow 2017

LANGUAGE

English: Native

Finnish: B1.1

PROJECTS

TriSwift

Activity Tracking for Triathletes

triswift-frontend.fly.dev/

Project for the Helsinki University Full Stack Open.

- Developed REST (Express) and GraphQL (Apollo Server) APIs for authentication and data operations.
- Implemented JWT authentication for secure login, protected routes, and role-based access.
- Designed and managed relational data models with Sequelize ORM.
- React & TypeScript frontend using Apollo Client for GraphQL queries and mutations.
- Integrated a custom Mapbox tool for interactive progress visualization.
- Unit tests with Vitest, E2E tests with Playwright.
- Containerized the application with Docker for consistent development and deployment.
- Deployed with Fly.io with automated CI/CD via GitHub Actions.

WORK EXPERIENCE

Environmental Consultant

Ramboll, Finland, 2023

Supervision of site environmental remediaton.

- Soil & water sampling and contamination analyses.
- Communication with on site contractors to ensure smooth progress.

Geo-Environmental Scientist

Mason Evans Partnership, Scotland, 2018 -2021

Evaluating geotechnical & environmental constraints of sites for development.

- Managing multiple ongoing projects, communicating with clients & contractors.
- Analysing stability of mineworkings & shafts.
- Design environmental & geotechnical test programs.
- Hazardous waste classifications.
- Groundwater modelling.