

TYLER SIMMONDS

SOFTWARE ENGINEER 📍 45 HAWTHORN CLOSE, NORTHALLERTON, DL7 9PN, UNITED KINGDOM 📞 07479923541

◦ DETAILS ◦

45 Hawthorn Close, Northallerton,
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◦ LINKS ◦

[Portfolio](#)

[LinkedIn](#)

◦ SKILLS ◦

Software Development

TypeScript

React

Amazon Web Services (AWS)

Terraform

Kotlin

◦ LANGUAGES ◦

English

👤 PROFILE

Experienced RAF Communications Technician skilled in software development, project management, and technical operations. Passionate about innovation.

★ PROJECTS

PPE & Loan Management Web App

- Developed a PPE & Loan Management Web App tailored for RAF Mountain Rescue Teams to move away from a legacy paper based systems.
- Written using React, TypeScript, and Node.js for frontend and backend development
- MongoDB used for storing data.
- Frontend hosted on AWS S3 with CloudFront for CDN
- Deployed backend on EC2 instances.
- S3 bucket storage for user-generated images.
- Demonstrated proficiency in full-stack application development through project execution.

SARCALL Alarm Android App

- Developed SARCALL Alarm, an Android application tailored for the RAF and UK Mountain Rescue Teams.
- Designed solutions to circumvent Android limitations related to SMS detection and alarm activation, ensuring prompt response to emergency callouts.
- Received commendation from RAF Leeming Station Commander for significantly enhancing team communication and coordination during callouts.

Team Leader Android App

- Developed an Android application to address challenges encountered by RAF MRS team leaders, focusing on simplifying callout procedures during emergencies.
- Simplified the cumbersome process of logging into an online system and executing multiple steps by condensing it to a single button press, ensuring swift team mobilisation for urgent tasks.

Portfolio Website

- Designed my personal portfolio website using Figma.
- Developed the website using React, Typescript, and Tailwind CSS, resulting in responsiveness and smooth navigation across various devices.
- Hosted the website on AWS S3 with CloudFront for CDN to enhance performance via caching.
- Utilised Route 53 for DNS management.
- Implemented a Python Lambda function connected to an SNS for the contact form.
- Entire infrastructure deployment using Terraform for efficiency in managing AWS resources.

📁 EMPLOYMENT HISTORY

Communications Manager at RAF Mountain Rescue, Northallerton

November 2020 — Present

Working within RAF Mountain Rescue Service (MRS) as the communication manager providing and managing the communications and IT suites used within the service. This includes Android application development, managing an incident management platform, DMR Tier 2/3 VHF Radios and Airwave.

Deployed Networks Engineer at RAF Leeming, Northallerton

April 2017 — November 2020

Deployed, maintained and recovered network and IT communication equipment from locations around the globe. This included the configuration of CISCO systems with reach back to the UK via satellite communication.

EDUCATION

FdSc Computer Science, Staffordshire University, Distanced Learner

May 2021 — Present

Advanced Level Apprenticeship in IT, Software, Web and Telecoms Professionals, Defence School of Communications and Information Systems

April 2016 — October 2018

BTEC Level 3 Diploma – Professional Competence for IT and Telecoms Professionals, Defence School of Communications and Information Systems

April 2016 — August 2018

BTEC Level 3 Diploma – ICT Systems and Principles (QCF), Defence School of Communications and Information Systems

April 2016 — April 2017

CERTIFICATIONS

AWS Cloud Practitioner

March 2024 — March 2027