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## Joseph Innes, Software Engineer

Passionate about implementing innovative solutions to computing problems. Well-versed in web dev, cryptography, networking apps, containers, cloud & distributed computing. Believes that simplicity is underrated. 29 years of age.

### Work Experience

Oct 2021 - Current

#### **npchat, Founder**

Built a decentralised communications protocol.

- Wrote back-end in Go & containerised using Docker (from scratch)
- Wrote front-end in ES6, using Lit framework
- All communication is end-to-end encrypted & verified
- Supports voice & video calls using WebRTC & a network of Coturn servers

Oct 2018 - Current

#### **Swissinfo, Full-stack Developer**

- Implemented a commenting system
- Integrated Facebook, Google & AppleID as auth providers, which grew the user base
- Experienced both Scrum & Kanban Agile workflows
- Worked remotely since April 2020

Sep 2018 - Dec 2021

#### **Nicole Schafer Photo & Film, Web Developer**

Built the website for Swiss photographer & filmmaker, Nicole Schafer.

- Built with Hugo, NetlifyCMS & GitHub's OAuth API
- Implemented a serverless media store to serve images from the edge
- Built a contact form with a Telegram bot

May 2017 - Jul 2018

#### **9 Group, Web Developer**

Led the development of a web app that consolidated legacy internal applications, which boosted the company's productivity. Learned Angular, C#.NET & SQL.

Sep 2011 - Aug 2014

**GE Aviation Systems, Higher Engineering Apprentice**

Designed & developed embedded avionics software for civil & military aircraft.

- Employed as part of an extremely competitive under-graduate scheme.
- Gained experience in team-leadership, project management & digital design
- Completed NVQ Level 4 in Engineering Leadership

**Education**

Sep 2011 - Jun 2014

**University of the West of England, FdSc Aerospace Computer Systems**

As part of my Higher Engineering Apprenticeship with GE Aviation Systems. Modules included; analytical methods (mathematics), digital systems development, CPU architecture, VHDL, software design, and embedded microprocessor systems.

**Experience With**

Agile	CI/CD	Linux	Git	Docker	distributed systems	cryptography
serverless	stateless auth	SSL & DNS	Go	pprof	benchmarks	tests

**Languages**

<b>English</b>	<b>German</b>
Mother-tongue	Limited