

Jonny Stoten

SENIOR SOFTWARE ENGINEER

Bristol, UK

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Senior software engineer with 14 years' experience working with a wide variety of tech stacks and languages. Currently working mainly with **Go**, with previous experience in **Elixir**, **React**, and **Typescript**.

A firm believer in automated testing and continuous monitoring, with a strong commitment to code quality and maintainability.

Experienced with all parts of the development lifecycle, all the way from design to deployment.

Experience

Docker, Inc.

Remote

SENIOR SOFTWARE ENGINEER

2020 - Present

- Improving software supply chain security for millions of developers by adding digital signatures to Docker Official Images.
- Creating and maintaining new open-source libraries, including [docker/attest](#).
- Collaborating with others across industry and academia in open standards working groups.
- Founding and serving as a member of the Technical Steering Committee for the [OpenPubkey project](#).
- Writing blog posts to explain our work to developers across the industry.
- Various smaller projects across Docker Hub, Docker Desktop, and Docker Scout.

Pirate.com

Bristol, UK

SENIOR SOFTWARE ENGINEER, TECHNICAL LEAD

2018 - 2020

- Developed software using an eclectic mix of languages and technologies for the world's largest network of music studios.
- Lead rewrite of the core booking system from a Ruby on Rails MVP to a scalable backend API written in Elixir and a responsive frontend using TypeScript with React.
- Designed and implemented Pirate's [in-studio audio recording system](#) for DJ mixes, using Raspberry Pi devices and a cloud recording storage backend.

Rocketmakers

Bath, UK

SENIOR SOFTWARE ENGINEER

2013 - 2018

- Worked with startups and scaleups developing minimum-viable-products and production ready applications, including:
- **TravelLocal**, a web application for connecting travellers with local travel agents, who can create and refine itineraries for bespoke luxury holidays.
- **PDMS**, a system used by the [UK Sports Institute](#) to track performance and medical records of elite athletes competing at Olympic and Paralympic Games.

Ansys

Cambridge, UK

SOFTWARE ENGINEER, TECHNICAL LEAD

2010 - 2013

- Worked on **GRANTA MI**, a materials science database product for use in the aeronautic and automotive industries.
- Responsible for the implementation of new features across almost every aspect of the system, as well as the high-level technical strategy for API and Server products.
- Designing and implementing solutions to maintenance problems typical in large legacy systems.

Projects

attest

 [docker/attest](#)

MAINTAINER

2024 - Present

- Open-source project for Docker for applying policy to supply-chain attestations on container images.
- Combines several open standards (SLSA, in-toto, TUF) into a simple solution for attestation verification.

OpenPubkey

 [openpubkey/openpubkey](#)

MAINTAINER AND TECHNICAL STEERING COMMITTEE MEMBER

2023 - Present

- Open-source community project for binding public keys to OIDC identities without the need for a Certificate Authority.
- Implemented GQ signature support to prevent replay attacks when publicly sharing OIDC ID tokens.
- Engaged with the wider community to gather feedback and address concerns.

Writing

Signing Docker Official Images Using OpenPubkey

Docker Blog, Oct 2023

How to Use OpenPubkey to Solve Key Management via SSO

Docker Blog, Feb 2024

Skills

Languages Go, JavaScript/TypeScript, Elixir, C#/.NET, Ruby, Clojure

Frameworks Node.js, React, Phoenix, Rails

DevOps Docker, Kubernetes, Terraform, Prometheus, Grafana

Other Security, Cryptography

Education

Bachelor of Science (Hons)

Royal Holloway, University of London

FIRST CLASS, COMPUTER SCIENCE

2007 - 2010

An up-to-date version of this CV can always be found at <https://jonnystoten.com/cv>.