Sam Huddart

Enthusiast Programmer & Student

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Experience

UNIVERSITY OF KENT | Student Tutor

Sep 2022 – Apr 2024 | Canterbury, Kent

- Tutor and Assist year-one & two undergraduates in programming labs.
- Supervise and Assist, students in school-organised "homework club"
- Engage in talks with the BCS (British Computer Society)

DAJI.IO | Software Contractor

Jan 2023 – Mar 2023 | Remote

- Help design fast, high volume data processing framework in Rust.
- An experience into fast, iterative development - planning and dividing smaller components, iterating until suitable.

WAREMOSS LTD | Payroll Assistant

July 2016 – March 2019 | Uckfield, East Sussex

- Created VBA Macros to automate manual tasks of high volume.
- Produced Spreadsheets to help formulate payroll data
- Automate email creation, formatting, and to contribute to the transition to a paper-less department

Recent Projects

LUNA | Rust - Distributed Minecraft Server

2020-2021

2024-

- An experimental concept for a scable game server, that allows for large number of concurrent players without hitting performance issues.
- A learning experience in the design and implementation of protocols and networks, which resulted in the creation of my own data format "tycho"
- An introduction into reverse engineering and debugging network protocols.

JWTEA | Rust & WASM - High Performance JWT encoding and Verification

2024

- Built to provide a cohesive API for developers, putting both ease of use and performance at the same table.
- WASM bindings for Javascript, allowing fast JWT access on the web and in JS server appliactions.

WATCH/FLOW | Rust & Typescript - Web P2P Framework

2023

- A framework for negotiating and establishing secured connections between web clients.
- Leveraging WebTransport, WebRTC and WebCrypto to create cryptographicly signed "rooms".

YETI | Rust - Scripting Language

2022

- An opportunity to learn about language, syntax, and interpreter design, while writing a tokeniser, lexer and an interpreter from scratch.
- Working efficiently as a team by using ticketing and issue allocation.

Skills

PROGRAMMING

Proficient:
Rust • Go • Java • Python • JavaScript

Experienced:
C# • TypeScript • PHP • HTML • CSS

Familiar:
C • C++ • Zig

LIBRARIES/FRAMEWORKS

PostgreSQL • Cassandra • Redis • Kafka • MongoDB

TOOLS/PLATFORMS

Git • Docker • Webpack • Kubernetes • Terraform • Cloudflare Workers • Gitlab CI • Github Actions

Education

UNIVERSITY OF KENT

BSC Computer Science

Sep 2021 - Present | Canterbury, Kent

UCKFIELD COLLEGE

A-Level Computer Science

A-Level Further Maths

Sep 2019 - July 2021 | Uckfield, E. Sussex

Computer Science - A*

References

Chris Bashford,
Computing • Uckfield College
c.bashford@uckfield.college

Sally Statham,
Payroll Assistant • Waremoss
sally.statham@kamsons.co.uk

Intrests

Rust London
Kent Computing Society
TinkerSoc