

Oliver Brotchie

Address: Edinburgh, EH14

Contact Number: +44 (0)7848850594

Github: [github/oliverbrotchie](https://github.com/oliverbrotchie)

Email: o.brotchie@gmail.com

Website: kyriakon.net

About Me

A software developer from Edinburgh looking to work with my hands instead of my fingers. I have a passion for sustainable and simple technologies, minimalist programming and developing new solutions to interesting problems.

Open-Source Projects

- [CSS Fingerprint](#) - A novel method for CSS based fingerprinting and a pure CSS 'supercookie', [CSS-Tricks Article](#) - *Advanced CSS, Sass, Nginx*.
 - [Optionals](#) - A library for rust-like error handling and options in TypeScript and Deno - *Typescript, Deno, NodeJS*.
 - [Orthodox Calendar](#) - The Liturgical calendar of the Saints, daily readings and fasts for the *calendar* command. - *Shell, Unix (Linux)*.
 - [Link-rs](#) - Generate hash-id based URLs and QR codes for use in URL shortening. - *Rust, WASM*.
 - [OB](#) - A minimalist static site generator written in Rust - *Rust, RSS, HTML, XML*.
 - [Block-List](#) - A hosts-based CLI for system wide ad blocking on desktop and android - *Rust*.
 - [Conveyance CLI](#) - Fill out word documents with JSON data, designed for legal conveyancing - *Rust, XML, Docx*.
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Key Skills

- A background in systems programming and back-end software development.
 - Strong Unix and system management proficiency.
 - Frameworks and Languages:
 - Rust
 - Shell Scripting
 - Typescript
 - React
 - Svelte
 - NodeJS + Express
 - PostgreSQL + GraphQL
 - Docker
 - Terraform
 - GCP
 - Cloud Functions
 - Message Queue Systems
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Education

- **Heriot-Watt University (September 2017 - July 2021)** - BSc Computer Science.
 - **George Heriot's School (2012-2017)** - Scottish Highers in Computer Science, Mathematics, Physics, English and Latin.
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Relevant Experience

- **Software Engineer at Nandos UK (Sept 2023 - Dec 2023)** - In the Nandoca ID team we built a series of high-throughput APIs for managing Employees with Okta SSO. - *Rust, GCP, Terraform, PubSub, Typescript*.
 - **Full-Stack Engineer at Ember Digital (February 2022 - Sept 2023)** - In the Integrations & Core Ledgers Squad, we designed and implemented new 3rd party integrations such as an Open Banking integration with HSBC Kinetic and re-designed legacy systems including the accounting ledger the with correctness and scalability in mind. - *Typescript, GCP, Cloud Functions, Terraform, PubSub, Next.js, React*.
 - **Founder and CEO of Ream Systems (2020 - 2022)** - An app meant to inform the public on current bills, debates in parliament and track what politicians get up to.
 - **Freelance Projects** - Various professional freelance contracts doing design work, full stack internal service or website development for differing firms.
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Volunteering and Other Experience

- **Indeed Flex (2021)** - A number of temp jobs including: hotel work, shelf stocking, cleaning and waiting.
 - **AutoRek, Glasgow Office (2016)** - Work experience shadowing a tester, responding to customer inquiries and sitting in on scrum meetings.
 - **Sisters of Mercy (2016-2018)** - Volunteer work serving food and drink to the homeless, unloading deliveries and simple food preparation.
 - **Gorgie Farm (2014-2018)** - Volunteer work feeding the animals, cleaning pens and working the til.
 - **Heriots Junior School Classroom Support (2016-2017)** - Helping out in a handful of different classes and working closely with a Syrian refugee on mathematics and English.
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Achievements

- **The Andrew Stewart Prize (2018/2019)** - Awarded to the most deserving student of a degree programme in the Department of Computer Science.
 - **Inspiring Volunteer Award (2016)** - For assisting and mentoring a volunteer who had additional support needs with the animals and farm work at Gorgie Farm.
 - **Young Scott Award Nominee (2016)**
 - **Duke of Edinburgh Award (2016)**
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Hobbies and Interests

- Developing open-source projects.
 - Road biking and wild camping.
 - A love of theology.
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References and other information can be provided on request.