# Oliver Brotchie

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## About Me

A full stack developer from Edinburgh who loves minimalist programming and Rust. I am a startup founder and have a passion for privacy, decentralised technologies and developing new solutions to interesting problems.

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## 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*.
- **Numeric-Oxide** - A numerical precision library for Javascript environments - *Rust, WASM*.
- **Link-rs** - Generate hash-id based URLs and QR codes for use in URL shortening or deep linking services. - *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 full stack web-development.
- Strong Unix and system management proficiency.
- Frameworks and Languages:

  - Rust
  - React
  - Svelte
  - NodeJS + Express
  - Deno (Typescript)
  - PostgreSQL + GraphQL
  - Docker
  - Terraform
  - GCP
  - Cloud Functions
  - Message Queue Systems
  - Bash/Shell Scripting

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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

- **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.
- **Full-Stack Engineer at Ember Digital (February 2022 - Present)** - In the Integrations Squad, we design and implement new 3rd party integrations such as an Open Banking integration with HSBC Kinetic and re-design legacy back-end areas of the main app with scalability and performance in mind. Whilst working here, I have also build two open-source libraries in Rust which we compile to WebAssembly - *Typescript, GCP, Cloud Functions, Terraform, PubSub, Next.js, React*.
- **Freelance Projects** - Various professional freelance contracts doing design work, full stack internal service or website development for differing firms.

## Volunteering and Other Experience

- **Indeed Flex (2021)** - A number of temp jobs including: hotel work, shelf stocking, cleaning and waitering.
- **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.

## 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)**

## Hobbies and Interests

- Developing open-source projects.
- Mountain biking and wild camping.
- A love of economics, philosophy and theology.

*References and other information can be provided on request.*