

Simon Rose

Software Engineer and Tech Leader

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Summary

I am a software engineer and tech leader with 10+ years experience of building and leading high-performing, innovative and results-driven software development teams. I have led the design, development and delivery of complex software projects across fintech, edtech and academia. I pride myself on my leadership and communication skills, and I am exceptional at organisation, process implementation and attention to detail. I hold a PhD in Computer Science, and my research focused on creating games to teach children programming skills.

Recent Experience

Director - RoseTech

May 2020 -

- Provided software development, technical leadership and software engineering consultancy services to a variety of clients from digital agencies to universities.

Lead Software Engineer - Thrive

Oct 2023 -

- Guided the frontend implementation of Thrive's learning platform using React, TypeScript, Redux and GraphQL. Ensuring that code is fast, testable, scalable and high quality.
- Responsible for line managing 8 frontend software engineers (4 direct and 4 indirect) including other leads and seniors, guiding career development and coaching through 1:1s.
- Made enterprise-level frontend architectural decisions and implemented best practices.
- Worked on platform health and technical debt initiatives, collaborating with backend, QA and cloud engineers on Thrive's event-driven microservice architecture.
- Expanded the team through interviewing and hiring permanent and contract software engineers.
- Built Thrive's component library using Storybook and MUI, working closely with the UX team.

Lead End Point Assessor - Sheffield Hallam University (Part-time)

Jul 2020 -

- Assessed the Digital and Technology Solutions Specialist Integrated Degree Apprenticeship - Software Engineering Specialism.
- Developed the assessment process, including assessment schemes and question frameworks, based on the Government-provided standard.
- Conducted the assessments for 45 apprentices over 4 years, each involving a 2 hour discussion and grading a 10,000 word project report.

Chief Technology Officer - MTa Learning

Jan 2022 - Mar 2023

- Oversaw the delivery of 18 web applications and APIs for a collaborative experiential learning platform.
- Architected the platform solution (full-stack TypeScript using Next.js, Nest.js and MongoDB) based on requirements from the Managing Director.
- Created UI/UX designs in Figma for user-facing applications using a reusable design system.
- Handled product strategy, including road-mapping, stakeholders, and managing task priorities and dependencies.
- Hired software engineers and designers at various levels to build the platform.

Principal Software Engineer - 542 Digital

Apr 2022 - Mar 2023

- Oversaw the development and delivery of 19 fintech web applications using TypeScript, React, Redux and Next.js.
- Built and led a team of 5 engineers, supporting their personal and professional development through 1:1s and continuous feedback whilst fostering an open and productive culture.
- Implemented industry standard software development processes and an Agile methodology across multiple teams.
- Led on hiring for multiple roles across the business, including software engineers, project managers and product designers.
- Consulted the business on growth from a small agency (10 employees) to an SME (40 employees) and acted as a de-facto Director in terms of financial and business discussions.

Lead Software Engineer - 542 Digital

Oct 2021 - Mar 2022

- Led on the development of 8 fintech web applications using TypeScript, React, Redux and Next.js.
- Overhauled the frontend tech stack from JavaScript/jQuery projects sitting within a larger Laravel application, to standalone TypeScript/React projects that can handle additional complexity, are more scalable and are easier to test.
- UI/UX design in Figma using a design system based on Ant Design.
- Standardised documentation practices company-wide.
- Implemented an automated and manual testing strategy, code review process and coding standards.
- Configured reusable CI/CD pipelines using Gitlab CI.
- Configured application deployments to AWS using Docker/EKS and Amplify, Vercel and Cloudflare Pages.

Senior Software Engineer - 542 Digital

Jul 2021 - Sep 2021

- Developed 2 web applications in React, JavaScript and Highcharts.
- Maintained 4 legacy applications in JavaScript and jQuery.

Skills

Technical

- React, Next.js and Redux
- AngularJS and RxJS
- Vue.js and Nuxt.js
- TypeScript / JavaScript
- HTML / CSS / SCSS
- Node.js / Express.js
- Automated testing using Jest / Cypress / Playwright
- MongoDB / SQL databases
- GraphQL
- Deployments using Vercel, Netlify, AWS, Google Firebase and Ubuntu servers.
- Pipeline configuration using Gitlab CI/CD and Jenkins.

Soft Skills

- Problem-solving
- Organisation
- Planning
- Adaptability
- Communication
- Attention to detail
- Pragmatism
- Evaluating competency
- Situational awareness
- Leadership
- Business awareness
- Educating
- Presenting
- Building productive team cultures

Design and Project Management

- UI/UX design
- Figma
- Jira / Linear / Trello
- Agile

Education

PhD Computer Science - Sheffield Hallam University

Oct 2016 - Sep 2019

Thesis Title: Developing Children's Computational Thinking Skills using Programming Games

Supervisors: Dr Jacob Habgood and Dr Tim Jay

Outputs: [Pirate Plunder](#) (an online programming game available for free and currently being used by the Federal Center for Technological Education of Rio de Janeiro as part of their programming curriculum.)

MComp Software Engineering - Sheffield Hallam University

Sep 2011 - Jul 2016

First Class (Honours)

Sandwich Course

Award Classification Mark: 86.55%

Interests

Reading

I like to read and am always striving to broaden my knowledge and understanding on a wide range of topics. I set myself the goal to read a book a week in 2016 and have continued to exceed this target each year.

Exercise

I enjoy keeping myself in good shape, primarily through cycling and resistance training.

Travel

I am a keen traveller and enjoy throwing myself into the unknown. I have travelled around Asia, South America and Europe over the last few years.

References

References available upon request.