

# Simon Rose

## Software Engineer

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### Summary

I am a driven and adaptable software engineer who is experienced in 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 finance, education and academia. I pride myself on my leadership and communication skills. I am exceptional at organisation, process implementation and attention to detail. I have a PhD in Computer Science, and my research focused on creating games to teach children programming skills.

### Experience

#### Director - RoseTech

May 2020 -

- Providing software development and consultancy services.

#### Senior Technical Manager - 542 Digital (Contract)

April 2022 - Mar 2023

- Overseen the development and delivery of 19 fintech web applications using TypeScript, React, Redux and Next.js.
- 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 within the team.
- 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.

#### Chief Technology Officer - MTa Learning (Contract)

Jan 2022 - Mar 2023

- Overseen 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 design system.
- Handled product strategy, including road-mapping, stakeholders, and managing task priorities and dependencies.
- Led on hiring software engineers and designers to build the platform.

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

Jul 2020 -

- Assessed the Digital and Technology Solutions Specialist Integrated Degree Apprenticeship - Software Engineering Specialism.
- Developed an assessment process, including assessment schemes and question frameworks, based on the Government provided standard.
- Conducted the assessments for 40 apprentices over 3 years, each involving a 2 hour discussion and grading a 10,000 word project report.

#### Lead Software Engineer - 542 Digital (Contract)

Oct 2021 - Mar 2022

- Led on the development of 8 fintech web applications using TypeScript, React, Redux and Next.js.
- Overhauled the front-end tech stack from JavaScript/jQuery projects sitting within a larger Laravel application, to standalone TypeScript/React projects that can handle additional complexity.
- UI/UX design in Figma using a design system of components and variables.
- Standardised documentation practices.
- 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.

<b>Senior Software Engineer - 542 Digital (Contract)</b>	Jul 2021 - Sep 2022
<ul style="list-style-type: none"> <li>Developed 2 web applications in React, JavaScript and Highcharts.</li> <li>Maintained 4 legacy applications in JavaScript and jQuery.</li> </ul>	

<b>Research Software Engineer - Loughborough University (Freelance)</b>	May 2020 - Mar 2023
<ul style="list-style-type: none"> <li>Developed full-stack applications using Vue.js, Vuex, Express and MongoDB and Angular, RXJS and Firebase.</li> <li>Deploying applications to on premises servers using PM2 and Nginx.</li> <li>Designing UI/UX using Figma.</li> </ul>	

<b>Associate Lecturer - Sheffield Hallam University (Part-time)</b>	Sep 2016 - Oct 2020
<ul style="list-style-type: none"> <li>Prepared and delivered teaching content on a number of undergraduate Computer Science and Software Engineering modules.</li> <li>Supervised MSc, BSc and BEng students on their final year projects.</li> </ul>	

<b>Software Engineer - 3Squared (Placement and Part-time)</b>	Sep 2013 - May 2016
<ul style="list-style-type: none"> <li>Developed full-stack web applications in C# using ASP.NET MVC and Web Forms.</li> <li>Worked in Agile teams.</li> <li>API design and implementation.</li> </ul>	

## Key Skills

Technical	Soft Skills	Design and Project Management
<ul style="list-style-type: none"> <li>React (and Next.js)</li> <li>AngularJS/RXJS</li> <li>Vue.js (and Nuxt.js)</li> <li>TypeScript/JavaScript</li> <li>CSS/SCSS</li> <li>Node.js/Express.js</li> <li>C#</li> <li>Automated testing (Jest/Cypress)</li> <li>MongoDB/SQL databases</li> <li>Deployments using Vercel, Netlify, AWS, Google Firebase and Ubuntu servers.</li> <li>Pipeline configuration using GitlabCI and Jenkins.</li> </ul>	<ul style="list-style-type: none"> <li>Organisation</li> <li>Planning</li> <li>Adaptability</li> <li>Communication</li> <li>Attention to detail</li> <li>Pragmatism</li> <li>Evaluating competency</li> <li>Situational awareness</li> <li>Leadership</li> <li>Business awareness</li> <li>Educating</li> <li>Presenting</li> <li>Building productive team cultures</li> </ul>	<ul style="list-style-type: none"> <li>UI/UX design</li> <li>Figma</li> <li>Jira/Linear/Trello</li> <li>Agile</li> </ul>

## Education

<b>PhD Computer Science - Sheffield Hallam University</b>	Oct 2016 - Sep 2019
Thesis Title: Developing Children's Computational Thinking Skills using Programming Games Supervisors: Dr Jacob Habgood and Dr Tim Jay	

<b>MComp Software Engineering - Sheffield Hallam University</b>	Sep 2011 - Jul 2016
<b>First Class (Honours)</b> 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, swimming and running.

**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.