

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.

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

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

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

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

Key Skills

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

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, 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.