

# Simon Rose

## Software Engineer

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### Summary

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I am an ambitious and driven Software Engineer, experienced in designing and developing full-stack web applications from web-based games to enterprise-level systems. I have a PhD in Computer Science and several years of professional software development experience, across both industry and academia. I have strong interpersonal and teaching skills and exceptional ability in organisation, planning and time management.

### Experience

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#### Freelance Software Engineer - Simon Rose Software

April 2016 - Present

- Design, development and deployment of full stack web applications, primarily in JavaScript using front-end frameworks (AngularJS, Vue.js and React) and Node.js/Express back-ends with MongoDB.
- Client liason and project management.
- Projects include research software for Loughborough University.

#### Associate Lecturer - Sheffield Hallam University

Oct 2016 - Oct 2020

- Preparing and delivering teaching content on a number of undergraduate Computer Science and Software Engineering modules.
- Supervising MSc, BSc and BEng students on their final year projects.
- End Point Assessor for the Digital and Technology Solutions Specialist MSc course.
- Student voice 'outstanding' member of staff 2016-17 and 2019-20.

#### Full Stack Software Engineer - 3Squared

Sept 2013 - May 2016

- Developing bespoke web applications in C# using ASP.NET MVC and Web Forms.
- Using web technologies including HTML, JavaScript and CSS.
- Application deployment using IIS.
- Working in Agile teams.
- Code reviews.
- Version control using Git and Team Foundation Server.
- API design and implementation.
- Time estimations and risk reviews.

### Education

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#### PhD Computer Science - Sheffield Hallam University

Oct 2016 - Sept 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 First Class (Honours)

Sept 2011 - July 2016

Award Classification Mark: 86.55%

## Skills

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### Programming Languages

- JavaScript (and TypeScript)
- C#
- C++
- Java
- SQL
- PHP
- HTML
- CSS (and LESS/SASS)

### Frameworks/Software

- Node.js
- Angular
- Vue.js (and Vuex)
- React (and Redux)
- Mocha/Chai/Jest/Cypress
- .NET
- MongoDB
- Photoshop
- InDesign

### Other Skills

- Organised
- Motivated
- Pragmatic
- Adaptable
- Able to lead
- Business awareness
- Widely-read
- Teaching/presenting

## Example Projects

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### Cognitive Function Task

May 2020 - July 2020

- An application that allows researchers to flexibly develop and customise cognitive function task assessments.
- Split into three parts: a CMS for managing tasks, an progressive web application for running tasks and a REST API that handles data.
- Developed using Vue.js for the front-end and Node.js/Express for the back-end.
- Research project for the Centre of Mathematical Cognition at Loughborough University.

### Pirate Plunder

Sept 2017 - July 2018

- Educational block-based programming game.
- Teaches players how and why to use procedures the Scratch programming tool.
- MEAN (MongoDB, Express, Angular, Node.js) stack.
- Developed as part of my PhD.

### Speakeasy

Jan 2016 - May 2016

- Lead programmer in a team of 3.
- Augmentative and alternative communication (AAC) speech generation software designed for children with cerebral palsy.
- Uses semantic compaction to combine chosen words to form more complex sentences.
- MEAN (MongoDB, Express, Angular, Node.js) stack.

## Interests

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### Sport

I enjoy playing and watching sport, primarily football and resistance work in the gym. I play 6-a-side football regularly.

### 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.

### Travel

I am a keen traveller and enjoy backpacking. I have travelled around South East Asia, South America, Japan and several European countries in the last few years.

## References

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### Dr Jacob Habgood

Director of Education Partnerships  
Sumo Digital  
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### Martin Cooper

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