

# Richard Seaman

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[richardseaman](#) 

I love building software to solve real world problems. As a career changer and technology enthusiast, I'm a strong believer in lifelong learning. I'm interested in roles where I'm exposed to new and exciting challenges, where I can remain *hands-on* and focused primarily on software engineering (IC Track).

## EMPLOYMENT HISTORY

### CoolPlanet, Software Architect

JUN 2021 - PRESENT

The software team at CoolPlanet is relatively small (<20). As one of the most senior members of the team, my duties are split across technical leadership and management.

#### Technical Leadership:

- Overall responsibility for our front end applications and codebases
- Collaborate with product owners and designers to help translate business needs into solid deliverables
- Work closely with CTO and other architects to design and shape our systems
- Evaluate technologies and emerging trends

#### Management:

- Manage a team of developers (8 direct reports)
- Established and evolved onboarding program
- Developed and rolled out a career framework
- Specify training programs
- Translate complex concepts into concise and intuitive documentation for onboarding purposes
- Find and interview candidates

### CoolPlanet, Senior Full Stack Developer

JAN 2018 - JUN 2021

As a senior full stack developer, I worked across all layers of our stack and picked up whatever languages and technologies were required. I was also responsible for training and mentoring junior developers.

#### Frontend:

- Multiple React SPAs (some NextJs)
- Typescript
- Storybook / Chromatic
- Jest / Cypress
- XState / Redux
- Design systems / Component libraries
- Data intensive applications (charts, data grids)
- Monorepos & NX (tooling, project graph, CI)
- Domain specific challenges (calculation editor and engine, graph traversal)

#### Backend:

- Microservice architecture
- Java / Spring
- SQL and NoSQL Databases
- Time series databases
- Axon & Fantom (domain specific languages for IoT)
- Data ingestion, cleansing and manipulation
- AWS

### BDP, Mechanical Engineer

SEP 2014 - DEC 2017

I started my career as a mechanical engineer before changing to software development. I was responsible for designing effective, efficient, innovative and safe building systems within a given budget and timeframe. I worked on a range of projects, in both lead and support roles and often as part of an interdisciplinary design team.

## PERSONAL PROJECTS

### Pocket Papers - [www.pocketpapers.ie](http://www.pocketpapers.ie)

MAR 2015 - JAN 2021

Pocket Papers was my first serious software project, which I started in 2015. It is an application for secondary school students and teachers. It provides quick and easy access to past state examination material such as exam papers, marking schemes, aural papers, sound files and much more.

As a solo founder/developer, I released native iOS and Android apps (Swift and Java respectively) and grew them to become the most popular and highly rated apps in the second level education space.

I was approached to sell the business in late 2020. By this stage my main focus had shifted to climate change, so after a couple of months of negotiations, I decided to exit and sell in early 2021.

Although my involvement has ended, I take great pride in the fact that Pocket Papers continues to deliver value to students and teachers across the length and breadth of Ireland.

### BSE Toolbox - [slide deck](#)

JUN 2016 - JAN 2019 (recently revived)

The Building Services Engineering (BSE) Toolbox is a native (Swift) iOS application that I developed while working as a mechanical engineer. It includes a range of helpful tools/calculators for use while out of the office.

I stopped maintaining the app in 2019 as I had other priorities. Inevitably, it became incompatible with later iOS releases so it was eventually removed from the App Store. Prior to this, the app had become quite popular within the industry, traveling by word of mouth.

I've recently been in talks with the industry's leading professional body, [CIBSE](#), to revive the app and make it available on [the web](#) for their members.

### Other

- Home automation
- Home energy monitoring
- Various Arduino / Raspberry Pi / NodeMCU / Xbee projects

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## EDUCATION

I initially studied engineering before entering the workforce, acquiring a BEng (Hons) and MEng. After deciding to change my career to software development, I completed a part time HDip in Computer Science.

### Bachelors Degree (Hons)

*"Building Services Engineering"*  
Dublin Institute of Technology  
First Class Honours (1.1)  
2009 - 2013

### Masters Degree

*"Energy Systems Engineering"*  
University College Dublin  
First Class Honours (1.1)  
2013 - 2014

### Higher Diploma

*"Computer Science (IoT stream)"*  
National College of Ireland  
First Class Honours (1.1)  
2017 - 2018