

Mary Rose Cook

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EMPLOYMENT

Project Lead, Engineer, Senior Coach [Makers](#) April 2016 - April 2019

- Led a team that built a web app to automate our application process.
- Coached 100 bootcamp students to their first dev jobs. Ran course, designed curriculum, coached.
- Introduced metrics that significantly improved our education and sales.
- Overhauled introductory curriculum to ensure every student began with solid programming skills.
- **Technologies** - JavaScript, Node.js, React, Express.

Coach, Engineer [The Recurse Center](#) March 2013 - December 2015

- Coached many developers at this code retreat. Reviewed code, ran seminars, guided learning.
- Made [Code Lauren](#), a web-based IDE for making video games ([demo video](#)). Created programming language, bytecode compiler, rewindable virtual machine.
- [Ported](#) Git to JavaScript. Wrote 6,000 word [essay](#) about Git internals.
- Created [Isla](#), a programming language for children. Wrote the compiler in Clojure.
- My personal projects hit #1 on Hacker News five times.
- **Technologies** - JavaScript, Clojure, Python, Node.js.

Engineer (contractor) [Khan Academy](#) August 2012 - March 2013

- Created some of the first tutorial JavaScript programs for their online, interactive code editor.

Engineer [Pusher](#) May 2011 - May 2012

- Wrote scalable code to help send millions of push messages a month.
- Helped implement features like webhooks, peer-to-peer events, Node.js integration.
- **Technologies** - JavaScript, Ruby, Node.js.

Web Developer [Ableton](#) February 2010 - May 2011

- Worked on the web team of this software house. Added ecommerce features, did big refactors, helped build the content management system.
- **Technologies** - Python.

EDUCATION

MEng Software Engineering **Sheffield University, UK** 2000 - 2004

- A combined undergraduate and masters degree.
- Specialised in natural language processing and AI.
- Dissertation: NLP project that predicted the authors of Shakespearean-era plays.

TALKS, ESSAYS, PROJECTS

- [Talked](#) at JSConf about [Isla](#), my programming language for children.
- [Livecoded](#) a game from scratch at the Front Trends conference.
- Made [Code Lauren](#), an online IDE for making video games. ([Demo video](#).)
- [Implemented Git in JavaScript](#). Wrote [6,000 word essay about Git internals](#).
- Wrote essay, [A practical introduction to functional programming](#).