Nick Speal

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I'm a software engineer with a specialization in web development and a track record of success in robotics and team leadership. I'm committed to improving the access and quality of education for all children and excited to build tools that help teachers help students learn more effectively.

McGill University
Bachelor of Mechanical Engineering
Dean's Honour List
GPA: 3.9/4.0

Javascript, React, Redux, Sass, CSS Modules
Python, Django, AWS, Linux

Self-directed Post-Graduate Education 2018

- A master's degree is an excuse to spend a year or so learning. I've assembled my own curriculum of computer science and social justice and skipped the big bill.

Software Engineer, 3D Robotics 2017

- Built a complex and evolving web application, enabling visualization & interaction with construction site topography collected by drone
- Owned frontend development and maintenance together with 2-3 other engineers, occasionally picking up backend and drone software projects as needed.
- Shipped an MVP early; achieved market leadership after one year of biweekly updates, measuring user feedback along the way with Amplitude and interviews
- Fun challenges included: PDF import and overlay on a map, real-time 3D Volume estimator and visualizer, Integration with nascent Autodesk APIs for team sync & file management.
- Worked remotely, allowing uninterrupted time for intense focus, while communicating effectively online.

Engineering Project Manager, 3D Robotics 2015-2016

- Responsible for systems integration and team coordination for Solo: the first mass-produced camera drone to be sold in major retail stores around the world
- Ensured product quality by establishing integration testing processes and investigating complex issues with interdisciplinary teams

Team Lead and Controls Engineer, McGill Robotics 2011-2014

- Led a team of 98 students to build robots for two international competitions

Summer Internships, McGill University 2011-2013

- Software development in Python and MATLAB in support of a variety of research objectives

Side Projects

- Find a library of (mostly web-) applications I've built at speal.ca/projects