

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 care deeply about using technology to improve quality of life and fairness in the world and would love to build web-based tools that help scale Zipline's life-saving operations. I'm also a US Citizen.



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

- I've assembled my own curriculum of online courses, books, projects, and travel related to computer science and social justice

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

- Full-time MATLAB and Python development to support graduate research

Side Projects

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