






# Andrew Dworschak

Stanford student leveraging experience in computer programming, math, and leadership to advance the frontier of innovation.

 Stanford, CA, USA  
 (650) 250-2560  
 [andrewdworschak@stanford.edu](mailto:andrewdworschak@stanford.edu)  
 <https://andrewdworschak.github.io>  
 <https://linkedin.com/in/andrew-dworschak>

## EDUCATION

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**Stanford University – M.S. Management Science & Engineering** *Sept 2019 – Mar 2021*

- Focused on the intersection of Technology Engineering Management and Artificial Intelligence.
- Teaching assistant for three innovation-focused courses in the Stanford Technology Ventures Program (STVP).

**University of British Columbia – B.S. Engineering Physics, Minor in Entrepreneurship** *Sept 2014 – May 2019*

- Focused on building complex engineering systems from the first principles of physics and math.
- Grade Point Average: 92.6% or 4.20 over 58 Courses Taken.
- Awarded 13 distinct scholarships for academic and research excellence.

## TECHNOLOGY LEADERSHIP

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**Data Analyst – Centre for Operations Excellence at the Sauder School of Business, UBC** *May 2018 – Jan 2019*

- Applied machine learning algorithms to solve data-driven problems and recommend business decisions to our clients.
- Identified operational inefficiencies due to customer behavior by applying filtering techniques to geospatial wi-fi data.
- Performed early filtering of insurance claim forms using Word2Vec and Latent Dirichlet Allocation.

**System Architecture Intern – Logic & Form at the IRSHDC, UBC** *Aug 2017 – Dec 2017*

- Gathered and incorporated diverse stakeholder feedback into the system architecture of an interactive digital museum.
- Rapidly iterated on software systems and technology demonstrations using the Scrum framework.
- Produced complete technical specifications for a replicable digital museum over 5 months.

**Product Development Intern – Arbutus Medical** *Jan 2016 – Apr 2016*

- Led research and development for the Drill Cover System using the Agile methodology.
- Designed mechanical components for low-cost surgical tools in developing countries.

## ENTREPRENEURIAL EXPERIENCE

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**Entrain – Automated Workout Analysis** *July 2017 - Present*

- Led a team to create an end-to-end solution to seamlessly analyze a gym user's exercises, weights, repetitions and technique using depth-sensing cameras. This system automatically generates a detailed fitness profile for the user.
- Used Python and TensorFlow for machine-vision. Used AWS, Swift and Flask to manage fitness profiles.
- Awarded four prizes in distinct entrepreneurial competitions totalling \$13,100.
- Completed live user trials with our proprietary technology in the university fitness center.

**Physics-Based iOS Applications** *Dec 2015 – Dec 2016*

- Launched the physics-based game SQNCE into the iOS App Store, generating revenue with an ad-server.
- Self-taught the Swift programming language and Model View Controller framework for application development.

**Painting Franchise Owner** *Oct 2014 – Aug 2015*

- Managed hiring, training, marketing, sales, production, and accounting.
- Generated \$50,000 in revenue and \$15,000 in net profit over a 3-month period.

## SKILLS

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**Technical:** Data analytics, Mobile development, Mathematical reasoning, Python, TensorFlow, C++.

**Leadership:** Professional communication, Agile methodology, Technical writing, Innovation, Strategic thinking.