






# Andrew Dworschak

Stanford student leveraging experience in data science, engineering, and leadership to drive and commercialize innovation.

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## EDUCATION

### 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 research and academic excellence.

## TECHNOLOGY LEADERSHIP

### Data Analyst – Centre for Operations Excellence

*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.

### Product Management Intern – Logic & Form

*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 product specifications for a replicable digital museum over 5 months.

### Product Development Intern – Arbutus Medical

*Jan 2016 – Apr 2016*

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

## ENTREPRENEURIAL EXPERIENCE

### 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

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

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