

# NATHALIE JEANS

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## EDUCATION

**Carnegie Mellon University | Pittsburgh, United States** May 2024

Bachelor of Science in Electrical and Computer Engineering – GPA 3.75/4.00

*Relevant Coursework:* Fundamentals of Programming, Intro to Computer Engineering, Integral Calculus

*By Summer 2021:* Concepts of Mathematics (Proofs), Physics for Engineers, Engineering and Public Policy

*Activities:* Society of Women Engineers, Engineers Without Borders, Model at Lunar Gala Fashion Show

**TFS — Canada's International School | Toronto, Canada** May 2020

Advanced Bilingual International Baccalaureate Diploma – GPA 96/100

*Activities:* Peer Mentor Head, Student Council Representative, Swim Volunteer, Division I-B Varsity Volleyball

## EXPERIENCE

**CMU Computer Science Academy | Pittsburgh, United States** January 2021 – Present

*UX Designer*

- Design website for a high school computer science curriculum by Carnegie Mellon University's School of Computer Science for 78,000+ students from 1,000+ schools across the world
- Implement feedback from teachers and users to improve functionality and aesthetics of the platform, using Figma to prototype the interface
- Produce marketing and branding materials to expand the CMU CS Academy globally

**Integrate.ai | Toronto, Canada** July 2019 – August 2019

*Machine Learning Scientist Intern*

- Develop a machine learning model to quantify the customer centricity of an airline's business strategy based on decision modelling and presented work to executives
- Lead meetings with a cross-functional team of 7 from Data Science, Product, Sales & Marketing, Software and Platform Engineering on our method of calculating and implementing the customer metric
- Initialize long-term vision for Integrate.ai's Trusted Signals Network (TSN) product, which uses strictly non-PII data to predict customer needs in real time

**The Knowledge Society (TKS) | Toronto, Canada** August 2018 – August 2019

*Innovator*

- Write tech-based articles on Medium's Towards Data Science publications and had a feature in the Practical AI: Machine Learning and Data Science podcast, episode "BERT: one NLP model to rule them all", with the hosts discussing my article "The Backpropagation Algorithm Demystified"
- Speak about GANs at the Venturing into Tech Conference at the University of Toronto, St. George
- Create recommendation decks for problems presented by Walmart and Wealthsimple

## PROJECTS

**Used Uniform Sales Application** March 2019 – June 2019

*Software Developer & UX/UI designer*

- Program JDBC API with backend database to automate the transaction of used uniform sales at school, reducing processing time by 25%
- Build a tool to generate a daily log of sales, track inventory and bill individual accounts on the student database, increasing accounting efficiency by 30%
- Design the UX/UI and tested it at a popup booths during semesterly community-wide events

## SKILLS

Programming: Python, Java, JavaFX, HTML, CSS

Spoken Language: English (fluent), French (fluent), Mandarin (beginner – completed HSK 2 and YCT 3)