

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: Signals and Systems, Principles of Imperative Computation (C), Fundamentals of Programming (Python), Intro to Computer Engineering, Integral Calculus, Concepts of Mathematics (Proofs)

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

EXPERIENCE

CMU Computer Science Academy | Pittsburgh, United States

January 2021 – Present

UX Designer, Content Creation Intern, and French Translator

- Design platform and user interface using Figma for CMU CS Academy's high school computer science course for 78,000+ students from 1,000+ schools across the world
- Create interactive, graphics-based programming exercises in Python for CS0, CS1, and AP CSP classes
- Teach 4 week-long professional development sessions for teachers across North America

SheEO | Toronto, Canada

March 2017 – May 2020

RadGen Program Developer

- Founded a program within SheEO for students to participate in SheEO's funding of womxn-led ventures
- Hosted hour-long weekly sessions with 60 high school students to evaluate startups' business models
- Generated database of 100+ BIPOC women & non-binary entrepreneurs for SheEO to expand their network

Integrate.ai | Toronto, Canada

July 2019 – August 2019

Machine Learning Scientist Intern

- Developed a machine learning model to quantify the customer centricity of an airline's business strategy based on decision modelling and presented work to executives
- Led 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
- Initialized 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

- Wrote 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"
- Spoke about GANs at the Venturing into Tech Conference at the University of Toronto, St. George
- Created recommendation decks for problems presented by Walmart and Wealthsimple

PROJECTS

Used Uniform Sales Application

March 2019 – June 2019

Software Developer & UX/UI designer

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

SKILLS

Programming: Python, C, Java, JavaFX, HTML, CSS

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