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, 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, implementing regular feedback to improve the curriculum
- Translate the notes and code portions of CS1 into French in order to expand 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)