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Work Experience

QMIND - Director of Design

Kingston, ON Apr. 2021 - Present

TECHNOLOGIES: PYTHON, PYTORCH, TENSORFLOW, SPACY, NLTK, NUMPY, PANDAS, MATPLOTLIB

- QMIND is the largest Undergraduate AI organization in Canada, with over 200 members and 30+ clients
- Directly managing 5 client facing design projects and 1 internal design project
- Provide technical expertise to ensure successful project completion
- Leading new **project sourcing** and **client acquisition** for design projects
- Creating onboarding packages and technical training resources, including lectures and interactive notebooks
 on machine learning techniques presented at our onboarding event to 60+ new members

Mu Lab - Research Intern

Kingston, ON

TECHNOLOGIES: PYTHON, TARSKI, BAUHAUS, PDDL

May. 2021 - Sept. 2021

- · Co-authored the first comprehensive library for action model acquisition from state trace data
- Release anticipated by a community of 300+ researchers in the field of automated planning to use for future research
- Designed an intuitive, feature-rich API for using the library
- Implemented 2 acquisition techniques, which involved translating complex theoretical algorithms from research papers into code
- Created powerful data visualizations for trace and model understanding
- Set-up CI/CD pipelines for development
- Adhered to **AGILE** development principles
- Awarded an Undergraduate Student Research Award (USRA)

Royal York Property Management - Full-Stack Developer

Toronto, ON

TECHNOLOGIES: TYPESCRIPT/JAVASCRIPT, REACT, GRAPHQL, MYSQL, NODE.JS, APOLLO SERVER/CLIENT, AWS, DOCKER

May. 2020 - Oct. 2020

- · Developed a web-application to modernize the client experience and internal business practices
- Led backend development and remained consistently **ahead of schedule**
- Learned the relevant technologies in **under a month**
- Performed a frontend overhaul, which involved writing 8000+ lines of production code in 2 weeks
- · Earned an extended contract

Projects

Attention Detection for Virtual Assistant Activation

Machine Learning

TECHNOLOGIES: PYTHON, PYTORCH, NUMPY, PANDAS, CNN, MTCNN

- Developed computer vision models for face detection and attention classification, applied as the activation mechanism for a virtual assistant
- · Led a team of 3 to build a web app and demo virtual assistant, and integrate the models with the assistant
- Presented and demoed our work at the Canadian Undergraduate Conference on AI (CUCAI) 2021
- Authored an **award winning research paper**, published through the conference proceedings

Logical PathPropositional Logic

TECHNOLOGIES: PYTHON, BAUHAUS

- Developed an original path-finding algorithm using propositional logic
- Awarded one of the top-10 best projects leveraging logic to solve a problem

Education

Queen's University Kingston, ON

BACHELOR OF COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Sept. 2019 - Present

- 4.12 / 4.3 GPA | Notable courses: Linear Data Analysis (A+), Cognition and Computation (A+), Data Structures (A+), Statistics (A+), and Logic for Computing Science (A+)
- Awarded the Queen's University Excellence Scholarship and a spot on the Dean's List for academic achievement
- Teaching assistant for Intro. to Computing Science and Logic for Computing Science

Skills

Languages Python, Typescript/Javascript, MATLAB, C, PDDL, Haskell, Prolog

Data Science Numpy, Pandas, Matplotlib, Seaborn, SQL

Machine LearningPyTorch, Tensorflow, Keras, SciKit-Learn, OpenCV, spaCy, NLTKTechnicalLinux, Bash Scripting, Algorithms, Data Analysis, Debugging, Testing

Interpersonal Problem Solving, Learning, Communication, Leadership, Teamwork, Dedication, Initiative, Curiosity