SEAN WU

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EDUCATION

University of Toronto – Honours Bachelor of Science

Toronto, Ontario   September 2017 – April 2022
Statistics Specialist, Mathematics Major   Latest sessional GPA: 4.0

PROFESSIONAL EXPERIENCE

IBM – Cloud DevOps Developer Intern

Markham, Ontario   May 2020 – August 2021

- Created an automation script with Python that reduced package validation time by >85% and increased test scope by >1000%
- Initiated and presented an independent project converting GA360 data to visualizations and a predictive model built with TensorFlow utilizing random-forest for external webpage metrics
- Lead role to a 30-people team on the transition to GitHub & JIRA, strategized best practices and created instructional videos

Mackenzie Investments – Technology Associate Intern

Toronto, Ontario   May 2019 – August 2019

- Developed an ETL-feature with Python to accept internal sales data in CSV format
- Conducted SQL queries to maintain automated regression tests

NCI Canada Inc. – Data Analyst Intern

Oakville, Ontario   May 2018 – August 2018

- Automated data mining process for coupling prices with Python
- Created spreadsheets to discover discrepancies in shipments

PROJECTS

Nostradamus – Algorithmic Trading Assistant

- Reinforcement learning model trained on historical data and news sentiment from a static BERT to address non-stationarity
- Simulates interest rates via geometric Brownian motion

Shoop – General AR Framework

- Facial recognition and logging, assigning metrics to known individuals and scrapes social media for unknown faces
- Voice detection to activate weather displays or visual filters

SKILLS & TOOLS

Python (NumPy, Pandas, Keras TensorFlow, SciKit-Learn, Pickle), PostgreSQL, R, JavaScript

Git, JIRA, Google Analytics, Excel

Linux, Windows, iOS, VMs

Agile methodology,
Machine learning diagnostics,
Statistical analysis

AWARDS & HONOURS

Hack Harvard 2017

"Best Overall" prize
Project: WiFindr

Hack Princeton Spring 2017

"Made My Day" prize
Project: Rubber Security

LANGUAGES

English   (native proficiency)

Mandarin   (native proficiency)

French   (elementary proficiency)

German   (elementary proficiency)

CERTIFICATES

Deep Learning   (IBM)

Docker Essentials   (IBM)

Kubernetes Essentials   (IBM)

Graph Theory Algorithms   (Udemy)

Quantitative Finance & Algorithmic Trading in Python   (Udemy)