

XING HAN LU

CS STUDENT, ML RESEARCHER, SWE INTERN

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ABOUT ME

Certifications Deep Learning Specialization (Verify [BNZ8BTQDGYVA](#))
Courses Artificial Intelligence, Honours Algorithms & Data Structures, Probability Theory, Software Design
Data Science Dash, Flask, Numpy, Pandas, Plotly, Sci-kit Learn, Tensorflow, Keras
Programming C, Java, JavaScript, \LaTeX , PostgreSQL, Python, React.js

EDUCATION

McGill University Montreal, QC (2017 - 2020)
Honours B.Sc. Computer Science - Data Science Stream, Internship Program
Marianopolis College Westmount, QC (2015-2017)
DEC, Pure and Applied Science

WORK EXPERIENCE

Plotly
Software Engineer Intern Montreal, QC (Summer 2018)

- Develop open-source Machine Learning apps using Tensorflow, viewed by 1,500 developers monthly
- Lead the migration of over 20 Dash apps from Heroku to proprietary hosting platform
- Present Dash and Plotly at Symposiums and Webinars with over 200 attendants

McGill Clinical and Health Informatics
ML Research Intern Montreal, QC (Summer 2017)

- Co-authored a ML paper presented at AAAI Workshop, through significant development contribution
- Manipulated datasets with millions of samples daily using Pandas and SQL

PROJECTS

Support Vector Machine (SVM) Explorer Made at Plotly

- First app to wrap the Scikit-Learn API using Dash, which combines Flask and React.js
- Increased number of UI-tunable parameters from 3 to 9, compared to Stanford's SVM demo
- Attracted 15,000 views across 5 platforms, and code generates over 2,000 monthly visits on GitHub

Image Processing App Made at Plotly

- Used session-based S3 storage to decrease overhead storage usage by 50%
- Combined recursive stacks and Redis caching to increase serving speed by 3x

PUBLICATIONS

**Using digital purchasing data to generate public health evidence:
Learning unhealthy beverage demand from grocery transaction data** New Orleans, LA (Feb 2018)
2018 AAAI Workshop on Health Intelligence (Verify [16399](#))

- AAAI is a conference with below 25% acceptance rate and 1500 annual participants
- 38% model improvement over baseline models using Multi-Layer Perceptrons and Non-Parametric Learning

ACTIVITIES

Esprit Science
Director Montreal, QC (Sept 2017 - Present)

- Non-profit organization founded by Schulich Leaders and Undergraduate Researchers
- Presented 3 intro coding workshops for special needs and high school students in our first year

McHacks
Organizer McGill University (Feb 2018)

- Flagship coding event with 600 students from all over North America (MIT, Berkeley, Waterloo, etc.)
- Collaborate with sponsors such as Amazon, Cisco, Deloitte and Google to offer over [\\$34,000 in prizes](#).