Hi, I'm DAVID DING

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SUMMARY OF QUALIFICATIONS

Proficient with Python, working knowledge in C, and Java
Working knowledge with Anaconda, TensorFlow, Keras and SKLearn
Hands-on experience with OOP and Data Structures including Trees, and Queues
Academic experience with PandasDB, SQL and working knowledge of R
Familiar with Ubuntu/Linux and other Unix environments
Exceptional Interpersonal Communication and Presentation Skills
Proficient in Adobe CC Suite, including Photoshop and Premiere

PROJECTS

GENEActive Reader | Python — Pandas — Numpy — Git | NiMBaL Lab Sept 2019

— Created and open-sourced automated extraction of raw GENEActive Binary files
— Logically and collaboratively created a relational database for the "ONDRI@Home" project for ONDRI (Ontario Neurodegenerative Disease Research Initiative)
— (WIP) Currently implementing machine learning algorithms for finding key metrics based on sensor data » wear-time, sleep/wake cycles, etc

Statistical NBA Dream Team | R June 2019

— Analyzed raw player data from the 2017-18 NBA season using R to create a theoretical "dream team" for the upcoming season, inspired by "Moneyball"

VANGUARD | Python — Pygame June 2017 — Sept 2018

— Learned principles of Object-Oriented Programming through development of a 2D side-scrolling game as my final project for a high-school class, earned a perfect score
— Included file loading, animation and fluid gameplay

Virtual Scheduler | C# — Unity 3D — Hololens| MLH Local Hack Day May 2017

— Collaboratively created a virtual schedule displayed onto a Microsoft Hololens
— Included voice and gesture commands for UI Navigation

WORK AND LEADERSHIP EXPERIENCE

Data Analyst / Program Developer — Research Assistant
Neuroscience, Mobility and Balance (NiMBaL) Lab Sept 2019 — Present

— Developed open-source modules to read and process raw accelerometry data from GENEActiv wearable devices to process over two million data points per hour
— Created relational databases for logical subject information storage

Freelance Math Tutor May 2018 — July 2019

— Explained and motivated students through their International Baccalaureate examinations in Standard-Level Math
— Hosted web-based Skype conferences and offered in-person assistance to promote active learning opportunities for each student

President | University of Waterloo Residence Council Jan 2019 — May 2019

— Collaboratively led community events using excellent interpersonal skills and agile thinking to achieve over 2000 even attendees throughout the term
— Fostered an incredibly positive team culture while delegating tasks that catered to each individual strengths

EDUCATION

Candidate for Honours Math in Statistics 2A | University of Waterloo

$2000.00 Awarded for the University of Waterloo President's Scholarship
Relevant Courses: Elementary Algorithm Design and Data Abstraction,
Logic and Computation in Computer Science,
Designing Functional Programs, Introduction to Combinatorics,
Probability, Interpersonal Communication