ADAM TABACK

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EDUCATION

University of Toronto   September 2022 - May 2026
B.A.Sc in Electrical and Computer Engineering   *cGPA: 3.92*

· Data Structures and Algorithms (C), Final Mark: 100% ⍟
· Programming Fundamentals (C++/OOP), Final Mark: 92% ⍟
· Digital Systems (Verilog & FPGA), Final Mark: 97% ⍟ (Labs) ⍟ (Project)

PROJECTS

Synthesizer in Verilog ⍟   Fall 2023
Digital Systems   *University of Toronto*

· Created a musical Synthesizer using Verilog, that ran on an FPGA
· Generated square and sine waves, produced note based on keyboard input, modulated waves to produce ADSR, compression and overdrive effects, displayed visuals using VGA display

RESEARCH EXPERIENCE

Risk Stratification for Improved Preeclampsia Prediction ⍟   Summer 2023
Summer Researcher with Professor Brian Cox   *University of Toronto*

· Used unsupervised machine learning techniques to find subtypes of Preeclampsia and Pregnancy for better prediction and understanding of disease
· Presented at UnERD (Undergraduate Engineering Research Day) and writing manuscript for publication

SKILLS

Computer Languages	Python, C, C++, R, Verilog, Matlab, Java
Operating Systems	Linux, Mac OS, Windows
Packages	Scikit-Learn, TensorFlow, Keras, Pandas, Matplotlib
Tools	High Performance Computing (HPC), Quartus, Modelsim, LaTeX, Github, Git, Microsoft Office (Word, Excel, PowerPoint, Outlook)
Professional Skills	Collaboration, Problem Solving, Leadership, Effective Communication

HONOURS AND AWARDS

· University of Toronto Excellence Award - HLS, 2023
· Dean's List Fall 2022, Winter 2023

WORK EXPERIENCE

Teaching Assistant   Fall 2023 - Winter 2024
ESC180 (Introduction to Computer Programming) & ESC190 (Data Structures and Algorithms)

· Ran weekly labs, helping students complete lab assignments and assessing their performance
· Received positive feedback from students for clear communication and quick debugging
· Marked Midterm and Final Exam

INTERESTS/COMMITMENTS

Food Bank Volunteer (Fort York Food Bank), Hart House Orchestra (Violin), Skule StageBand (Guitar), Bass Guitar, Running