

# ADAM TABACK

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## EDUCATION

### University of Toronto

*B.A.Sc in Electrical and Computer Engineering*

September 2022 - May 2026

*cGPA: 3.89*

- Data Structures and Algorithms (C), Final Mark: 100% 🏆
- Digital Systems (Verilog & FPGA), In Progress

## PROJECTS

### Synthesizer in Verilog 🏆

*Digital Systems*

Fall 2023

*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 Researcher with Professor Brian Cox*

Summer 2023

*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, L<sup>A</sup>T<sub>E</sub>X,  
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 - ESC180 (Introduction to Computer Programming)

*Fall 2023*

- 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