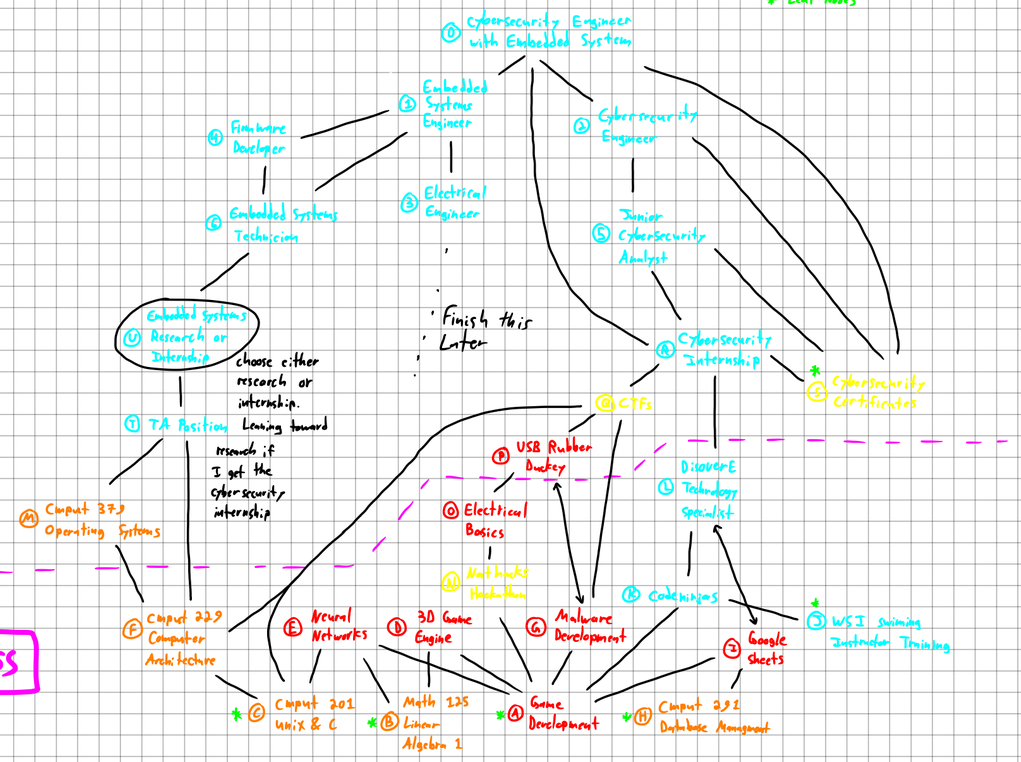
- Job position
- Educational skills
- certifications/Events
- Personal Achievements
* Leaf Nodes



TODO

3. Find out what to do with Cmput 340 and the course after it (maybe connect this to here)
4. Find the next step after Electronic Basics
5. Find the connection from it to Electrical Engineer
   Find the connection from TA position to Firmware Engineer
6. and connect this to it
7. Figure out what to do with operating systems after 379

S TA Position:

R Cybersecurity Internship:

- investigating Cybersecurity incidents
- network security monitoring
- scripting & Automation of tasks

Q CTFs:

- [Fill this after completing a few]

P USB Rubber Ducky:

- Oscilloscope
- Arduino nano, c++
- USB protocol
- Windows Powershell
- 3D printing

O Electrical Basics:

- Resistance, Voltage, current
- Basic Logic Gates
- PCB Design
- Soldering

N Math hacks Hackathon:

- Intro to Arduinos
- Muscle movement detection hardware/software
- Noise reduction Software
- C++, Arduino IDE, python
- Basic Game design
- Threading in python

M Cmput 379 Operating Systems:

- [Fill this after taking the class]

L DiscoverE Technology Specialist (co-op):

- Google sheets/forms
- Javascript, Appscript, Python, SQL, HTML, Block Coding
- Employee Sign in/out system, Materials Inventory System
- Lego Robotics
- Tech support
- 3D Printing, Laser cutting

K Codeninjas:

- Javascript, Block coding, python, Unity
- scratch, Makecode Arcade, Lego robotics
- Teaching & classroom Management

J WSI swiming Instructor Training:

- Teaching Swimming
- Confidence and Communication skills to talk to and teach children

I Google sheets:

- Budget Tracker, Todo List
- Inventory Management System
- Appscript, Javascript, HTML
- Sheet Formulas

H Cmput 291 Database Mangement:

- SQL, MongoDB, Python
- Database Management
- Queries

G Malware Development:

- key Loggers
- Papillon
- Trogans
- c#

F Cmput 229 Computer Architecture:

- RISC-V Assembly
- Computer Architecture: CPU, Memory, Logic gates
- Floating Point Arithmetic

E Neural Networks:

- Processing IDE, Javascript, C, C++
- XOR Problem
- Genetic Algorithms
- Back propagation
- Basic Game design as a training grounds

D 3D Game Engine:

- Javascript Canvas API
- Self made matrix & vector math libraries
- Orthogonal/Perspective Projection

C Cmput 201 Unix & C:

- unix & ubuntu Linux
- C & c++
- Make files

B Math 125 Linear Algebra 1:

- Matricies & vectors
- RREF
- Orthogonal Projection

A Game Development:

- Javascript Canvas API
- Processing IDE
- OOP
- Basics of Programming
- HTML
- Sprite design/art
- Sound integration libraries

1 Embedded Systems Engineer:

- connection between hardware & software
- microcontrollers, microprocessors, firmware, boards, uni
- C, c++, assembly
- efficient/optimized with limited resources

2 Cybersecurity Engineer:

- designing secure systems
- hardware & software solutions like: firewalls, intrusion detections, antimalware

3 Electrical Engineer:

- Hardware design
- Circuit design
- PCB layout/design
- Microcontrollers & Processors

4 Firmware Developer:

- Design Firmware Architecture for specific hardware platforms
- C, C++, Assembly
- Develop drivers & interfaces to enable communication between hardware and software

5 Junior Cybersecurity Analyst: