SHANNON
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PROFILE SUMMARY

2nd year Undergraduate Computer Engineering student highly motivated to be a team player in a working environment. Specialty in software development, specifically planning, problem-solving and debugging code. Advanced knowledge of computer organization and how software translates to hardware. Seeking a co-op placement to apply and grow my skills in a professional setting.

TECHNICAL SKILLS

Programming:

- C / C++
- HTML & CSS
- Git
- MATLAB
- Verilog
- Java

Tools:

- Visual Studio Code
- Netbeans
- Quartus 2
- Modelsim
- Google Workspace
- Microsoft Office
- LTspice

Operating Systems:

- Windows
- Linux & Unix

EDUCATION

Computer Engineering - Bachelor's September 2021 - April 2025

University of Toronto

Relevant Courses: Engineering Strategies and Practice I & II, Calculus I, II, & III, Linear Algebra, Computer Fundamentals (C), Programming Fundamentals (C++), Advanced Engineering Mathematics, Digital Systems (Verilog), Circuit Analysis, Signals and Systems, Computer Organization, Software Communication & Design, Introduction to Electronics, Electric & Magnetic Fields

- Proficient in writing C / C++ language code to develop software programs that solve complex issues.
  - Specialty in debugging, critically analyzing code, and communicating clearly its functions.
  - Applied knowledge of data structures such as arrays linked lists, and binary search trees to coursework.
  - Deep understanding of algorithms to make software run faster with effective memory allocation.
- Used Git to collaborate with team members within second-year software design team.
- Applied Verilog in labs to create digital logic circuits and systems such as finite state machines and counters.
- Deep knowledge of the innerworkings of hardware and how it translates from software.
- Highly-developed engineering mathematical skills for problem-solving and numerous applications.
- Experienced in operating electronic lab equipment such as digital multimeters, oscilloscopes, and protoboards.
- Displayed active, vigorous leadership within Engineering Design courses and design teams.
  - Learned and applied engineering design principles to solve a real world problem from a client.
  - Helped write clear documentation outlining our design process and how we got to our chosen solution.
- Actively part of the community, as Vice President Social in Skulecraft and as a volunteer in Global Brigades.
  - Work to advertise the Skulecraft club online, moderate the server and whitelist new players.

Ontario Secondary School Diploma September 2017 - June 2021

St. Pope John Paul II Secondary School, Toronto

- Demonstrated ambition through high levels of academic achievement and prowess throughout.
- Excelled in learning and applying the Java language fundamentals to school coding course and projects.
- Collaborated in a group of 4 in the i4 Competition, displaying vigorous time-management and analytical skills through the analysis of a production line's process, layout and efficiency.
- Collaborated with Art Committee peers to create an online platform for sharing student artwork and activities.
  - Applied Google Workspace tools to create an intuitive website that can be used by future students.

WORK EXPERIENCE

Global Brigades Volunteer Work August 2022 - 1 week total

Parihuaca, Honduras

- Raised money and traveled abroad to assist a small, rural community that lacked a convenient water system.
- Assisted local engineers in gathering data, such as measurements, to create the design for the system.
- Effectively created an oral presentation for the design and budget to showcase to the community.

Caretaker & Maintenance August 2018 - March 2020

Dr. Tsang Dental Office, Toronto

- Diligently assisted in cleaning and maintaining dental equipment and workplace.

Dental Volunteer Work August 2018 - 72 hours total

Dr. Tsang Dental Office, Toronto

- Actively communicated with clients for recall, scheduling appointments, and troubleshooting the schedule.
- Effectively organized files/records and prepared dental instruments for future use.

PROJECTS

Portfolio Website January 2023

- Applied HTML and CSS to create a personal portfolio website to showcase my work and projects.
- Used Git to upload to Github in order to work on multiple computers and to host my website online.
- Current goal is to learn and apply Javascript and ReactJS to make website more interactable.

Engineering Strategies and Practice II Winter 2022

- Worked with a team to solve a real client's issue - preventing grime on their apartment windows.
- Actively conducted meetings with client to ask questions and further understand their issue.
- Used Gantt charts to track and manage team progress and set key deadlines for our design project.
- Worked in a lab setting to create a prototype for our top solution, a titanium dioxide coating.
- Described the team's process to our solution through various documentation and a cumulative presentation.

Engineering Strategies and Practice I Fall 2021

- Took the role as the leader of design team to help keep design team organized and on task with deadlines.
- Learned and applied the engineering design process to create a solution for a more accessible delivery robot.
- Vigorously defined the core of the problem to scope it down to a manageable project.
- Detailed our process such as problem statement, research, idea generation, and more in several documents.

ACHIEVEMENTS

- Edward S Rogers Sr. Admission Scholarship - 2021
- University Of Toronto Scholar - 2021
- Governor General's Medal of Excellence - 2021
- Top Scholar Award for Ward 12 - 2021
- George Kung Computer Science Award - 2021