Samantha (Sam) Preisig

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https://samantha-preisig.github.io/
https://github.com/Samantha-Preisig

Languages: C, Java, Python, JavaScript , HTML, CSS
Tools: Git, Virtual Box, Gradle, Figma

Education

Bachelor of Computing - University of Guelph (Guelph, ON)

Honours Major in Computer Science, Minor in Mathematics

- Current GPA: 80% - Dean's List Fall 2019, Winter 2020
- Key projects:
    - **The Grove Youth Wellness Hub (Guelph) | 2021**

        https://www.youtube.com/watch?v=toWvO1fsv8A&list=LL&index=2&t=38s&ab_channel=GarrettHolmes

        - In my System Analysis and Design in Applications course, my team, Team FourLoops, had the opportunity to develop a solution to a challenge presented by The Grove. We were tasked to develop an online mobile tool to support youth engagement with The Grove. The YouTube link above is our final submission explaining The Grove's challenge and our solution (and our development planning process).
    - **Unbeatable Tic-Tac-Toe | 2020 (Updated version: 2022)**
        C, Make
        - Designed an undefeatable tic-tac-toe AI by implementing a hash table and an acyclic graph.
        - I have since, created an updated version using Python and a minimax style AI with apha-beta pruning and an option to play on 4x4 and 5x5 TTT boards with the ability to scale the AI's search ability (intelligence). This can be found on my GitHub: https://github.com/Samantha-Preisig/ttt-ai
    - **Rogue Game | 2020**
        Java, Gradle
        - A simple implementation of a dungeon crawling video-game using Java. The character can travel between rooms, collect distinct items, and view inventory.
    - **Conway's Game of Life | 2019**
        C, Make
        - Using C to implement Conway's Game of Life; a cellular automaton devised by John Horton Conway.
        - Achieved 100%

Work Experience

Apr 2021 – Oct 2021 | Customer Service Representative | OCAS | Guelph, Ontario

- **Company Profile:** OCAS (https://www.ontariocolleges.ca/en) is the application service for all Ontario Public Colleges.
- As a Tier 1 Customer Support Representative for OCAS and Conestoga College, I offload quick-resolution interactions, freeing college departments to focus on deeper issues their students are facing. I also participated in outbound Georgian College campaign calls by reaching out to Georgian students with upcoming events and reminders.
- **Duties and Responsibilities:**
    - Identify customer needs to supply them with correct information and/or direct them to the appropriate department.
    - Log each call with a brief detailed description of the call (the customer's inquiry and my direction) using a ticketing system.
    - Escalate urgent calls to supervisors when necessary.
    - Providing data logs to Five9 to help improve software.

- Update Conestoga College department staff with call trends and provide feedback on future improvements with Conestoga's college website and student portal.

Jun 2020 - Sep 2020 | Assembly Line Worker | Magna | Milton, Ontario
- **Company Profile:** Magna (www.magna.com) is an industrial manufacturer and one of the largest automotive suppliers in the world.
- **Duties and Responsibilities:**
  - Facilitating material movement in and out of welding robots, maintaining a fast-paced production line rhythm, ensuring correct placement of parts and quality of production welds, provided quality control finished products (typically porosity and skip welds).
  - Required to understand the robotic routines and schedule in order to trouble shoot robotic errors.
- **Achievements:**
  - Able to run 4 entire lines simultaneously (3-4 robotic stations in each line, each station containing 2-3 robots)
  - Trained new employees on how to run certain robotic stations while maintaining runtime efficiency. Parts per hour were not affected.
  - Area Leader (contact details below) was impressed with my work ethic, number of parts made daily, and flexibility throughout the plant and has offered a position within in the I.T. department in the summer vacation of 2021.

Jul 2017 – Present | Store Clerk | The Stonehouse of Campbellville | Campbellville, Ontario
- A small private hardware shop specialising in stain glass windows (www.thestonehouse.com). My mandate included store maintenance as well as running the store sole handedly from opening to closing without supervision.
- Typical day to day activities included: Greeting customers, providing background history on certain stained glass pieces, sampled windows in different rooms and lighting to assure the customer's decisions, handled phone calls and customer queries about in-store appointments, window dimensions, mounting strategies, and lead safety. Cleaned windows and displays and maintained store safety regulations.
- Entrusted to the entire business and property for many weekends.

Extra-Curricular

Guelph Women in Computer Science (GWiCS) | *Member* **| 2019 – Present**
- GWiCS is a student organization focused on supporting and providing resources for women interested in studying Computer Science at the University of Guelph.

hackHer Virtual Hackathon | 2021
- With our project, "Savoury Shrubs," we aim to teach the community about an alternative way to source food by foraging. While having a website to demonstrate basic functionality, we also used Figma to demonstrate a high-fidelity prototype of a potential phone application.

Go Code Girl 2022 | *Presenter* **| Winter 2022**
- Digital Forensics workshop:
  - Presented a demonstration on android device extraction and how to comprehend the information extracted.
- Build Your Own Website workshop (using HTML and CSS)
  - Taught 10 students (ranging from grade 8 to second-year university students) the basics of HTML/CSS and helped build their own website.

Personal digital art portfolio | *Hobby artist*
- Art has always been a strong passion of mine. In December of 2020, I transitioned from traditional to digital art and currently working on a digital art portfolio.
- My digital art portfolio can be found on my personal website: https://samantha-preisig.github.io/
- I also have a passion for video art and photo manipulation which I am currently self-teaching.