

Armaan Sharma

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EDUCATION

University of Toronto

Bachelor of Arts in Computer Science, Minor in Mathematics

Mississauga, ON

Sep. 2023 – May 2027

EXPERIENCE

Data Structures Tutor

Sep 2024 – Dec 2024

sKompXcel

Toronto, ON

- Guided students through fundamental data structures, including arrays, linked lists, stacks, queues, and trees
- Utilized Python, Java, HTML, and CSS to teach students about real-world applications of data structures
- Provided real-time debugging assistance and conceptual clarity, helping students improve problem-solving skills

Mathematics Tutor

Dec. 2024 – Present

Kumon

Hamilton, ON

- Provided personalized math instruction to students from high school, improving their problem-solving skills
- Assessed assignments to track progress, and identified areas for improvement accordingly
- Developed strong time management skills by balancing individual student needs while managing multiple learners

Plant Worker

May 2024 – Oct 2024

Bimbo Canada

Hamilton, ON

- Operated machinery and equipment to manufacture and assemble products efficiently and safely
- Conducted quality control checks to ensure products met company standards and specifications
- Collaborated with team members to meet production targets and address operational challenges

PROJECTS

Portfolio Website | *HTML, CSS, JavaScript, Visual Studio Code, Github*

Present

- Designed and developed a personal portfolio website to showcase projects and skills
- Implemented responsive web design using HTML and CSS for an optimal user experience across devices
- Leveraged Git and GitHub for version control and deployment
- Integrated Java-based functionalities to enhance interactivity

Tetris | *JavaScript, HTML, CSS, Canvas, Github, Visual Studio Code*

Present

- Implemented core game mechanics including grid-based logic, piece movement, rotation, and collision detection
- Utilized the HTML5 Canvas API to render and animate the Tetris game grid and Tetrominoes
- Integrated a simple game-over and restart functionality, with dynamic updates to the player's score
- Game loop functionality to ensure smooth and responsive gameplay across different devices and screen sizes.

HydroSorts | *JavaScript, HTML, CSS, Visual Studio Code, Github*

Present

- Developed a data algorithm visualization tool using React/Node.js, to show and explain different sorting processes
- Implemented algorithm simulations with synchronized pseudo code highlighting updates
- Integrated modular architecture for easy extension for new algorithms and visualizations
- Optimized rendering performance for real time interaction across devices

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS, C

Frameworks: React, Vanilla JavaScript, Flask

Developer Tools: Git, PyCharm, Visual Studio, VS Code, Node.js

Libraries: NumPy, Chart.js, pandas, Matplotlib