ZIXI (SAM) TANG

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Skills

- **Languages**: Java, Python, CSS, HTML, JavaScript, SQL, C, Racket
- **Technologies**: React.js, Linux, Bash, Git, VS Code, NetBeans, Eclipse, Bootstrap

Projects

Sudoku Solver *React.js, CSS (https://github.com/Zixi-Sam-Tang/SudokuSolver)*

- Utilized React framework to create a functional web application
- Applied React hooks to create functional components
- Implemented algorithms involving bit mapping to maximize efficiency by reducing time complexity
- Designed and styled a user friendly and intuitive interface using CSS

Personal Website *JavaScript, HTML, CSS (https://zixi-sam-tang.github.io/)*

- Applied HTML and CSS concepts to create an enriched user experience
- Implemented JavaScript functions to track user events for responsive web elements

Work Experience

Web Developer *Apr. 2022 – Dec. 2022*

FOCUS Youth *Thornhill, Ontario*

- Met strict deadlines with efficiency and quality to create an interactive and engaging website
- Collaborated in a fast-paced team-based environment to ensure customer satisfaction
- Utilized Bootstrap framework to create a responsive and elegant navigation bar

Design and Programming Executive *Sep. 2019 – Jun. 2022*

St. Robert CHS FIRST Tech Challenge Team 16488 *Thornhill, Ontario*

- Collaborated in a team of 15 to compete in the FTC tournament (achieved first place in Ontario Championship 2020)
- Took initiative as a part of the programming and design team to implement efficient algorithms (using Java) and create elegant CAD designs (using Fusion 360)
- Led and created lessons to increase student participation and interest in STEM

Awards

Math contests

- Euclid Honorable Mentions (only 15 chosen)
- Canadian Senior Math Competition Honor Roll (top 1%)
- Canadian Team Math Competition 2nd Place

Education

Candidate for the Bachelor of Computer Science *Sep. 2022 – Present*

University of Waterloo *Waterloo, Ontario*

- GPA | 92.4%
- Faculty of Mathematics Entrance Scholarship – $10,000
- CS 145 | Applied concepts from the functional programming paradigm (Racket) to solve algorithmic problems
- CS 136 (Current) | Implemented ideas from the imperative programming paradigm (C)
- CS136l (Current) | Employed bash scripts in a virtual Linux environment, applied Git for source code management

International Baccalaureate (IB) Graduate *Sep. 2018 – Jun. 2022*

St. Robert Catholic High School *Thornhill, Ontario*

- York Secondary Catholic Presidents' Council - Awards for Outstanding Leadership (2022)
- St. Robert CHS School Award of Excellence - Mathematics Award (2022)