ZIXI (SAM) TANG

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Skills

- Languages: C#, Java, Python, CSS, HTML, JavaScript, SQL, C, Racket
- Technologies: React.js, Linux, Bash, Git, Bootstrap, SQL Server, Power BI, .Net Core, Azure, Entity Framework Core

Projects

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

- Utilized React framework to create a functional web application to offer sudoku solving solutions
- Applied React hooks to create functional components for better readability and easier testing
- Implemented algorithms involving **bit masking** to maximize efficiency (reduced the time complexity of checking a valid node input from **O(n)** to **O(1)**)

Sudoku Solver Backend | C#, .Net Core, SQL | (https://github.com/Zixi-Sam-Tang/SudokuSolverBackend)

Administered .Net Core(C#) to create custom API, linking the front-end with the back-end (a locally hosted SQL Server with 9 million entries)

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

Experience

Full-stack Developer | ZOMP

Apr. 2023 - Sep. 2023

- Worked on cutting-edge software in the gas and pipeline industry using .Net Core 8
- Constructed and designed API architecture (MVC) for a remote central server using Azure SQL Database, Azure App Service, and Azure Cloud File Server
- Administered problem-solving techniques to create new features on both the front-end and back-end using XAML, Entity
 Framework Core, and .Net Core 8

Front-End Website Developer | FOCUS Youth

Apr. 2021 - Dec. 2021

- Met strict deadlines to create an interactive and engaging website using HTML, CSS and JavaScript
- Collaborated in a fast-paced team-based environment to ensure customer satisfaction
- Utilized Bootstrap framework to create a responsive and elegant navigation bar

Executive | St. Robert CHS FIRST Tech Challenge Team

Sep. 2019 – Jun. 2022

- 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 **CAD** designs (Fusion 360)
- Created an interactive environment to inspire growth and interest in STEM as well as a connected school community through robotics related lessons and workshops

Education

Candidate for the Bachelor of Computer Science

Sep. 2022 – Present Waterloo, Ontario

University of Waterloo

- GPA | 4.0
- Faculty of Mathematics Entrance Scholarship \$10,000

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)