DARSH SHAH

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EDUCATION

University of Waterloo **Sep. 2023 – PRESENT**
Honours, Bachelor of Software Engineering *Waterloo, Ontario*

- Cumulative GPA: 3.93
- Guo Family Engineering Scholarship and President's Scholarship of Distinction
- Relevant Coursework: Programming Principles, Data Abstraction and Implementation, Methods of Software Engineering

SKILLS

Technical: Python, JavaScript, C, C++, HTML/CSS, Figma
Technologies: OpenCV, Bootstrap, Bulma, Visual Studio, PyCharm, Jupyter Notebook, Github, Git, GitLab, Google Suite, Arduino
Interpersonal: Communication, leadership, time management, problem-solving, collaboration, quick learning

EXPERIENCE

STEM Instructor **Sep. 2022 – Sep. 2023**
City of Brampton *Brampton, Ontario*

- Designed the curriculum for an Introduction to Python course and proctored assessments for **50+ students**, resulting in a comprehensive learning experience
- Taught complex programming concepts, including Big O Notation and Object-Oriented Programming in Python, integrating project-based learning and achieving a **97% participant satisfaction**

Chairman **Jun. 2022 – Jun. 2023**
SciTech Activity Committee *Brampton, Ontario*

- Headed a cross-functional team of 25+ students in the organization of large-scale SciTech program events, notably WolfHacks, the Peel Board's largest hackathon
- Secured sponsorships and cultivated business partnerships, amassing over **$50,000** in support from renowned corporations like the Canadian Space Agency and Rogers
- Coordinated prizes, merchandise, and venues for over **800 participants**, helping grow the SciTech community

Web Developer **Jun. 2022 – Aug. 2022**
Nu Vision Metals *Scarborough, Ontario*

- Developed core features for the company site with HTML/CSS, SCSS, and JavaScript, increasing **website traffic by 17%**
- Leveraged market analytics with 2 full-time engineers to revamp the UI/UX on the Home, Capabilities, and Gallery pages, reducing bounce rate and improving interactions
- Implemented a streamlined workflow using Github, Git, and CI/CD tools, publishing **four rounds** of site revisions
- Produced cross-platform website wireframes with Figma and CSS, optimizing performance through A/B testing protocols
- Hosted and deployed website to: **nuvisionmetals.com**

PROJECTS

SaFire | *Node.js, React, Vite, Flask, Socket.IO, WebRTC* **Oct. 2023 - Dec. 2023**

- Collaborated with peers to tackle early residential fire detection using a Raspberry Pi and AI-trained recognition model
- Leveraged React and Vite to build the frontend with WebRTC integration, providing users with a seamless live camera feed
- Developed backend on a Flask server using Node.js and Socket.IO, providing real-time interaction with the Raspberry Pi to rapidly process signals transmitted by the YOLOv8 AI model

Personal Website | *JavaScript, HTML/CSS, SCSS, Bootstrap, Bulma, Visual Studio, GitHub* **Aug. 2023**

- Created a responsive, mobile-first portfolio website to share personal experiences, skills, and accomplishments
- Improved page load times by manipulating the DOM using JavaScript, creating a more dynamic site with greater interactivity
- Link: **darshshah.ca**

AWARDS

Recipient | Governor General's Academic Medal: *Government of Canada* **Jun. 2023**
Recipient | Science and Technology Award: *SciTech North Regional Program* **Jun. 2023**
Semi-Finalist | Loran Scholarship: *Loran Scholars Foundation* **Oct. 2022**