

Khushi Budhwar

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Education

University of Waterloo

Bachelor of Software Engineering, Honors

3.87 GPA (89% Cumulative Average) | Sept 2021 – Present

- Programming Principles **96%**, Introduction to Data Abstraction and Implementation **91%**, Algebra **98%**
- Coursework covers data structures, algorithms, object-oriented programming, and digital circuits.

Skills

Languages: C++, C, C#, Java, JavaScript, HTML, CSS, PHP, Golang

Technologies: Git, React.js, Jenkins, Kubernetes, Docker, Google Cloud Platform, Linux/UNIX, MacOS, Figma, MySQL

Experience

VerticalScope Inc.

Software Engineering Intern

Toronto, ON | May 2022 – Aug 2022

- Responsible for the maintenance of a Kubernetes cluster hosted in GCP that serves **1200+** forum sites that receive over **1 billion** requests weekly.
- Improved search engine optimization (SEO) by pushing new features, fixing bugs, and improving unit tests (PHPUnit).
- Reduced server response time by up to **60%** by implementing PHP preloading in production.
- Developed back-end infrastructure in PHP and a new database schema, cutting Docker deployment time from five minutes to **zero downtime**.
- Collaborated with other engineers to deliver a full website redesign using Figma, HTML, CSS, and JavaScript. The site allowed employees to easily upload PHP scripts that can be run in a command-line interface.

UW Orbital

Attitude Determination and Control Systems Member

Waterloo, ON | Sept 2022 – Present

- Participating in the Canadian Satellite Design Challenge to design and launch a CubeSat satellite into space.
- Responsible for developing algorithms to process the sensors' inputs and the control outputs to change the orientation of the satellite using orbital mechanics. Programmed in C.

TextSaver

Co-Founder

New York, NY | Sept 2019 – Nov 2021

- Worked with an all women team to create a web app capable of condensing a page from a student's textbook into flashcards.
- Attended QuarterZero, a 16-week start-up incubator. Gained over **\$1000** in funding from angel investors.
- TextSaver has been viewed in over **50 countries** and has collected over **1,000 emails**.

Projects

Personal Website

Aug 2022

- Designed and developed a fully functioning interactive, space themed website with various animations using React.js, HTML and CSS.
- Deployed the site using **Firebase** and Google Cloud Platform.

Reinvented Spotify Heardle

Jun 2022

- Designed a game that prompts the user to guess the name of the song and artist from a randomly selected snippet from their Spotify playlist.
- Developed the website using Spotify's API, React.js, CSS, and **MongoDB**.

Automated Plant Watering System

Nov 2021

- Collaborated with peers to create a fully automatic irrigation system that waters plants based on its species and its moisture level using a **Raspberry Pi**.
- Organized a system of motors and sensors run using **Python** that turns the plant while watering for even distribution.
- Developed a website using HTML and CSS that allows users to view the moisture level of the plant.