

# Vishnu Satish

SOFTWARE DEVELOPER · HIGH SCHOOL STUDENT

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## Summary

I am an enthusiastic and driven high school student with a passion for STEM and software development. My skills include full-stack development, app development, and data structures and algorithms. I've also recently interned at the University of Waterloo.

## Work Experience

### University of Waterloo

SOFTWARE DEVELOPER INTERN

Waterloo, Ontario, Canada (Remote)

July 2021 - August 2021

- Worked under Dr. Mei Nagappan to develop a website for the Software Architecture Group (SWAG) at the Cheriton School of Computer Science at the University of Waterloo
- Conceptualized an architecture and a process for storing data and defining relationships in XML
- Wrote a modularized Python script to generate static HTML from Jinja templates that utilized the XML data
- Customized Bootstrap using Sass
- Website link: <https://www.swag.uwaterloo.ca/www>

## Skills

**Programming** Python, HTML, CSS, JavaScript, C++, Data structures and algorithms

**Back-end** Flask, Jinja, SQLAlchemy, REST APIs

**Front-end** Sass

**Languages** English, Marathi, Kannada

## References

### Dr. Mei Nagappan

MEI.NAGAPPAN@UWATERLOO.CA

Associate Professor at University of Waterloo

## Projects

### The Woodlands Secondary School - Mathematics

WOODLANDS MATHEMATICS TEXTBOOK

February 2021 - April 2021

- Conceptualized and developed a series of online interactive mathematics textbooks for high schools mathematics courses
- Utilized the book's parsed HTML to develop, manage, and deploy a Flask application
- Integrated Desmos (graphing calculator) with the textbooks
- Added features such the ability to take LaTeX notes and an interactive whiteboard
- Decreased point-of-interactivity times for the online textbook from 7 seconds to 1 second

## Honours & Awards

February 2021 **Honour roll (top 1%)**, Cayley Mathematics Competition

University of Waterloo

February 2021 **100% final average**, Grade 11 Computer Science

The Woodlands School

## Education

### The Woodlands School

HIGH SCHOOL, GRADE 11

Mississauga, Ontario, Canada

September 2019 - July 2023 (expected)