

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

Waterloo, Ontario, Canada (Remote)

SOFTWARE DEVELOPER INTERN

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, JavaScript, C++, Data structures and algorithms

Back-end Flask, Jinja, SQLAlchemy, REST APIs

Front-end HTML, CSS, Sass

Languages English, Marathi, Kannada

Projects

Woodlands Mathematics Textbook

THE WOODLANDS SCHOOL

February 2021 - April 2021

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

Honours & Awards

February 2021 **Group 3 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)

References

Dr. Mei Nagappan

MEI.NAGAPPAN@UWATERLOO.CA

Associate Professor

University of Waterloo

Christopher Heathfield

CHRISTOPHER.HEATHFIELD@PEELSB.COM

Head of Curriculum

The Woodlands School