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   *Mississauga, Ontario, Canada*
High School, Grade 11   *September 2019 - July 2023 (expected)*

References

Dr. Mei Nagappan   *Associate Professor*
MEI.NAGAPPAN@UWATERLOO.CA   *University of Waterloo*
Christopher Heathfield   *Head of Mathematics Department*
CHRISTOPHER.HEATHFIELD@PEELSB.COM   *The Woodlands School*