Vishnu Satish

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EDUCATION

University of Waterloo   Waterloo, Canada
Bachelor of Computer Science (Honours), co-op   *September 2023 – April 2028*

- **Relevant coursework:** Designing Functional Programs (Advanced), Algebra (Advanced), Calculus 1

SKILLS

Languages: Python, C++, HTML, CSS, JavaScript, Ruby, Bash

Frameworks/Tools: Flask, React.js, Ruby on Rails, NativeScript, Cypress.js, Git, GitHub Actions, CircleCI

WORK EXPERIENCE

BookJane   Toronto, Canada
Software Engineering Intern   *July 2022 – August 2022*

- Engineered an end-to-end testing framework from scratch, **increasing UI test coverage from 15% to 85%**
- Developed Ruby software to create mock data for **120+ healthcare worker and administrator profiles**
- Architected Cypress.js programs that simulated **30+ real-world customer interactions** to detect bugs
- Created CircleCI workflows that executed the test software daily, **saving 300+ hours** of manual testing yearly
- Authored **extensive documentation** about the testing procedures and framework architecture

University of Waterloo   Waterloo, Canada
Software Engineering Intern   *July 2021 – August 2021*

- Engineered an **information archive and modification framework** in Python for a research group
- Designed and built the **official website** of the research group (swag.uwaterloo.ca) using Jinja2 (a templating language), Bootstrap, and **accessible design principles**
- Analyzed and stored **500+ data points** (publications, members, etc.) in a **custom-made XML format**
- Developed an interactive Python script that utilized **IEEE's Xplore API** to streamline the process of storing **all 300+ publications** and their attributes in the framework
- Created a **GitHub Actions workflow** that updated the data shown on the website **automatically** based on a change in the XML data, **reducing by 50% the amount of time** to update the website

AWARDS & ACHIEVEMENTS

Hack The North Winner: Created a **computer vision** customer analytics platform that won Best Use of Genesys, with a $500 prize. (September 2023)

Canadian Computing Competition Senior Honour Roll: Top 2% and **top 90 out of 3500+ in Canada**, with a score of 48/75. Solved **difficult algorithmic problems** involving dynamic programming, graphs, etc. (February 2023)

$100k Schulich Leader Scholarship: Offered most prestigious STEM scholarship in Canada at YorkU. (May 2023)

LEADERSHIP & VOLUNTEERING

hack::peel   Mississauga, Canada
Co-Founder & Co-President   *February 2022 – January 2023*

- Lead, organized, and ran **Peel Region's largest hackathon**, with **120+ in-person participants**
- Lead a **team of 15** alongside two peers, utilizing project management tools, like Trello, to effectively manage tasks
- Through cold emailing, acquired **11 corporate sponsors** who provided **$8,000**, along with other free items
- Provided **$1,000 in monetary prizes**, along with three free meals and free t-shirts to every participant

The Woodlands Secondary School Math Department   Mississauga, Canada
Software Developer   *January 2021 – December 2021*

- Created two interactive software textbooks (originally created on Google Docs) for high school math courses that have been used by **three math classes** as the primary textbook, and **120+ students**
- Parsed the books' HTML (from Google Docs) to deploy, manage, and maintain an interactive Flask application
- Integrated Desmos and an **auto-save whiteboard** in React.js to help teachers **teach lessons during COVID**