Vishnu Satish

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EDUCATION

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

WORK EXPERIENCE

BookJane   Toronto, Canada
Software Engineering Intern   *July 2022 − August 2022*
- Developed an end-to-end testing framework from scratch, **increasing test coverage from 15% to 85%**
- Built a Ruby software tool to create mock data for **120+ healthcare worker and admin profiles**
- Architected Cypress.js programs that simulated **30+ real-world customer interactions**
- Created CircleCI workflows for daily automated testing, **saving 300+ hours** of manual testing yearly
- Authored **extensive documentation** detailing the design, development, and functionality of the framework

Slang Labs   Remote
Software Developer Intern   *December 2021 − March 2022*
- Developed a **conversational voice AI application** in React.js, seamlessly integrating Slang Labs' SDK
- Created a shopping app with **intricate voice-driven flows**, like search filtering and item quantity adjustments
- Integrated **ElasticSearch**, **reducing by 75%** the time for search results to be shown when a user voice searches
- Optimized data flow and state management using **Redux Toolkit**
- Crafted a presentation detailing the features and metrics of the application that won **"Best Demo of the Week"**

University of Waterloo   Waterloo, Canada
Software Engineering Intern   *July 2021 − August 2021*
- Architected and developed a **data processing 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) and Bootstrap, and adhering to **accessible design principles**
- Created interactive Python software using **IEEE's Xplore API** to analyze and categorize **500+ data points** (publications, members, etc.) and their attributes in a **custom-made XML format**
- Automated website updates using **GitHub Actions**, **reducing by 50%** the time to update the website

AWARDS & ACHIEVEMENTS

Hack The North Winner: Created a **computer vision** customer analytics platform using Genesys' customer service APIs that won Best Use of Genesys ($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)

SKILLS

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

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

LEADERSHIP & VOLUNTEERING

hack::peel   Mississauga, Canada
Co-Founder & Co-President   *February 2022 − January 2023*
- Lead and organized **Peel Region's largest hackathon** for high schoolers, with **120+ in-person participants**
- Lead a **team of 15** alongside two peers using project management principles and tools, like Trello
- Acquired **11 corporate sponsors** through outreach initiatives who provided **$8,000**, along with other free items

The Woodlands Secondary School Math Department   Mississauga, Canada
Software Developer   *January 2021 − December 2021*
- Created two interactive software textbooks (originally created on Google Docs) in **Flask** for high school math courses that are being used by **three math classes** as the primary textbook, and **120+ students**
- Integrated Desmos and an **auto-save whiteboard** in React.js to help teachers **teach lessons during COVID**