

Vishnu Satish

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EDUCATION

University of Waterloo

Bachelor of Computer Science, co-op

96% Math and CS (Faculty) Average; 3.92/4.00 CGPA

Waterloo, Canada

September 2023 – April 2028

WORK EXPERIENCE

BookJane

Software Engineering Intern

Toronto, Canada

July 2022 – August 2022

- Developed an end-to-end testing framework from scratch, **increasing UI test coverage from 15% to 85%**
- Built a Ruby software tool to generate reliable 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

Software Developer Intern

Remote

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**

University of Waterloo

Software Engineering Intern

Waterloo, Canada

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 the Best Use of Genesys prize at Hack the North (\$500 prize). (September 2023)

Canadian Computing Competition Senior Honour Roll: (run by UWaterloo) Top 2% and **top 90 / 3500+ in Canada**, (score: 48/75). Solved **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, HTML, CSS, JavaScript, Racket

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

LEADERSHIP & VOLUNTEERING

hack::peel

Co-Founder & Co-President

Mississauga, Canada

February 2022 – January 2023

- Lead a **team of 15** alongside two peers to run an in-person hackathon with **120+ participants**
- Acquired **11 corporate sponsors** through team outreach initiatives who provided **\$8,000**, and other free items

The Woodlands Secondary School Math Department

Software Developer

Mississauga, Canada

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**