

Matthew Walker, Software Engineer

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EDUCATION

Lassonde School of Engineering, York University
Specialized Honors Bachelor of Engineering, Software

Toronto, ON, Canada
April, 2021

SKILLS AND PROFICIENCIES

Languages: Java, C++, Python, Javascript, node.js, SQL, go

Tools: AWS, React, Vue, Git, Kubernetes, Docker, Postman, Firebase, MongoDB

Hardware: Arduino UNO, Raspberry Pi 3, RPI0W, Dragonboard 410c, LPC802 Development Board

RELEVANT PROJECTS

LTL to PNF Converter

Toronto, ON, Canada

Creator and Developer

January 2021 - Ongoing

- developed an application which receives Linear Temporal Logic formulas (LTL) and converts them to their Positive Normal Form (PNF) for use in the development of a model-checker
- Utilized the Visitor design pattern to parse LTL formulas to accommodate for a future extension to parse Computational Tree Logic (CTL) and ensure common coding practices are adhered to
- Prepared Junit 5 test cases to ensure the correctness of the converter and generated appropriate Javadoc

The Smart Shopper thesmartshopper.online

Developed Remotely

Frontend Developer and Project Manager

November 2020 – Ongoing

- Directed a team of 6 members over 2 months to develop an online shopping platform
- Leveraged knowledge of the Vue.JS framework to create a responsive front-end
- Implemented DevOps and CI/CD pipeline with Docker, Kubernetes and Elastic on AWS

Coviscan coviscan.web.app

Developed Remotely

Founder and Frontend Developer

September 2020 – Ongoing

- Directed a team of 5 members over of 2 months to develop a Covid-19 statistics web platform
- Utilized web APIs to connect *Coviscan* to Google Maps and Google Charts to provide data visualizations
- Implemented logging, analysing, and mitigation tactics to ensure a high level of stability and security

Smart Soil Monitoring Device

Developed at Home

Creator and Developer

January 2020 – April 2020

- Developed an embedded system prototype which can monitor soil moisture levels and report back readings
- Utilized an LPC802 development board and C to implement the system
- Leveraged system timers to extend the life cycle of the device by up to 300%

EMPLOYMENT EXPERIENCE

TheForYou

Toronto, ON, Canada

Back-end Web Development Intern

April 2018 – September 2018

- Leveraged Knowledge in Node.js and MySQL to help produce rich interactive web software to facilitate remote communication between teachers and students
- Implemented an FTP server that receives FTP requests, stores file data in a MySQL database, allowing clients to both store and share documents
- Safely managed client passwords by utilizing salt and hashing techniques in a MySQL database

Cardinal Golf Group, King City

Newmarket, ON, Canada

Proshop Assistant

August 2014 - September 2018

- Demonstrated leadership and responsibility by training and directing backshop employees in their daily duties
- Upsold various products by suggesting additions, membership options and by utilizing knowledge of the industry to increase company profits