

# Shiloh Rodrigues



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## Experience:

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### Freelance Web Developer

September 2022 – Ongoing

Self-Employed | Montreal, QC

- Successfully managed multiple clients, delivering high-quality websites tailored to their specific needs and requirements.
- Completed full website development projects utilizing various technologies including WordPress, Shopify, and AWS.
- Customized WordPress and Shopify themes; implemented plugins to enhance website functionality and user experience.
- Implemented AWS services such as Amazon EC2 for hosting scalable web applications, and SES for emailing options.
- Effectively managed project timelines and tasks using agile methodologies.

### Construction Subcontractor

May 2020 – December 2023

Nellis Construction | Montreal, QC

- Managing small team of up to 2-3 laborers.
- General construction work; performing repairs on home foundations as well as concrete and brick structures.
- Part time while completing studies.

### R&D Electronics Technician

May 2018 – January 2020

Excelitas Technologies | Vaudreuil-Dorion, QC

- Conducted tests on laser diodes, such as wavelength, power verification, near field imaging, and burn in procedures, using oscilloscopes, spectrometers, and various sensors.
- Designed and automated test benches using .NET applications, significantly reduced manual intervention, and accomplished faster testing times by up to 4 minutes per unit.
- Created custom software for automating burn in procedures for development and production. Utilized multi-thread programming to collect and display data during the burn in process.
- Retrofitted outdated internal testing software, ensuring integration with newer product specifications.
- Created and maintained SQL databases to efficiently manage large volumes of test data generated during product testing.

## Education:

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### Bachelor of Computer Science – Concordia University

January 2020 – December 2023

- Focus on Object Oriented Programming with Java and C++.
- Courses on operating systems, parallel programming, web development, and algorithms.

### Engineering Physics Technology DEC – John Abbott College

September 2015 – May 2018

- Focus on electronics, physics, and robotics.
- Achieved an r-score of 31.

## Projects:

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A full list of my software projects can be found at [www.shiloh-r.dev](http://www.shiloh-r.dev).

### Parallel Quicksort Algorithms | [github.com/ShilohRodrigues/ParallelSorting](https://github.com/ShilohRodrigues/ParallelSorting)

- Implemented a Hypercube Quicksort algorithm, and a parallel sorting by regular sampling algorithm.
- Programmed and tested using MPI protocols and written in C.
- Experimented with different algorithms to observe changes in run time and load balancing.

### E-Commerce Shopify Store | [nursejohnn.com](http://nursejohnn.com)

- Developed and managed entire ecommerce store for my client to sell their merchandise.
- Created custom sections and features using liquid and Shopify's systems.
- Achieved a 2% conversion rate on launch and over 100k\$ in revenue in one year.

### Sorting Algorithm Visualizer | [shilohrodrigues.github.io/SortingAlgorithmVis/](https://shilohrodrigues.github.io/SortingAlgorithmVis/)

- Visualization tool for various sorting algorithms developed for fun and as a study tool during my algorithms course.
- Developed using HTML, CSS, and JavaScript.

### **Construction Company Landing Page | [entreprisesnortec.com](http://entreprisesnortec.com)**

- Developed a custom WordPress landing page for my client, showcasing their services and portfolio.
- Hosted the website on an Amazon EC2 instance, ensuring scalability and reliability.
- Configured Amazon SES for seamless email communication, enabling the client to send and receive emails directly from the website.

### **3D Printer | John Abbott College**

- Final year project of my 3-year DEC at John Abbott College.
- Consisted of a 2-part project.
  - First part involved constructing a 2D CNC machine with a custom G-Code interpreter programmed to recognize and execute 6 G-Code commands.
  - The second half of the project involved adding the 3<sup>rd</sup> dimension with the 3D printing mechanisms and implementing the Marlin 3D printing firmware.
- Built using specifically selected hardware and custom mounting apparatuses and running on an Arduino microcontroller.
- Placed 2<sup>nd</sup> at the 2018 John Abbott Engineering Expo.

### **Skills:**

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- Focus on Object Oriented Programming with Java and C++.
- Experience with C programming, mainly for robotics applications using microcontrollers (PIC, Arduino), as well as parallel programming with MPI.
- Front-end development using HTML, CSS, JavaScript.
- Experience with front-end frameworks such as Vue.js.
- Experience working with CMS platforms such as Shopify and WordPress, as well as using AWS services (EC2, SES).
- Proficient in .NET development with Visual Basic.
- Working knowledge of back-end development with PHP.
- Experience working with Linux operating systems and WSL.
- Database management with MySQL.
- Version control with GIT and SVN.
- Technical documentation with LaTeX.
- Proficient use of electronic test instruments such as oscilloscopes, spectrometers, and digital multimeters.