

Henrique Salvadori Coelho

35 Fountainhead Rd. M3J 2V7 – Toronto, ON

(647) 782-5460, henriquesc@gmail.com

Good problem solving skills, detail-oriented, well-organized and willing to take on new challenges. Fluent in English and Portuguese.

EXPERIENCE

- **ENGINEERING.com Project - Developer at Seneca College's Centre for Development of Open Technology (CDOT)**

Sep 2016 - Apr 2017. Toronto/ON

- . Created the Open-Source project **Rutilus** (<https://gmrutilus.github.io/>), which records and analyzes user behaviour, tracking the activity of millions of readers and finding patterns in their usage for determining their preferences
- . Deployed Rutilus on Amazon Web Services using EC2 Instances with Docker

- **Z3 Project - Developer at Seneca College's Centre for Development of Open Technology (CDOT)**

May 2016 - Sep 2016. Toronto/ON

- . Implemented a Node.js server with Express and load balance with PM2
- . Designed and implemented parts of the CRUD API for the application
- . Implemented a secure user management system with Passport.js
- . Implemented server and client-side layout rendering with React

- **Private tutor**

January 2015 - Ongoing. Toronto/ON

- . Teach and assist students with C, C++, JavaScript, Java, and PHP

- **Grower at Geremia Greenhouse**

May 2012 - Dec 2012. Wallingford Center/CT/USA

- . Managed approximately 5,000m² of ornamental plants greenhouses
- . Conceived a method of irrigation to improve and reduce losses of crops
- . Created a new, more efficient method for cutting nets for supporting plants

- **Intern at Sakata Seed Sudamerica**

Jan 2012 - Feb 2012. Bragança Paulista/SP/Brazil

- . Developed a better, easier to use spreadsheet for analyzing experiments

EDUCATION

- **Computer Programming and Analysis** - Seneca College

2015 - Ongoing. Toronto/ON. GPA: 4.0/4.0

- **Bachelor's in Agricultural Engineering** - Centre-West State University

2008 - 2014. Guarapuava/PR/Brazil. Average grade: 8.2/10.0

COURSES

- **Build a Modern Computer from First Principles: From Nand to Tetris Part II**

2017. Coursera.org. Grade: 96.8%

- **Using Regular Expressions**

2017. Lynda.com. Duration: 5.5 hours

- **Build a Modern Computer from First Principles: From Nand to Tetris**

2016. Coursera.org. Grade: 100%

Personal website

<http://hcoelho.com>

LinkedIn

<https://ca.linkedin.com/in/henriquesc>

GitHub

<https://github.com/hscasn>

PROFICIENT SKILLS

JavaScript, CSS, HTML, React, Redux

OTHER EXPERIENCES

Development

PHP, ASP.NET, C, C++, C#, jQuery, Python, Cobol, CL, RPG, Java, SASS

Databases

MongoDB, MySQL

Tools

GitHub, JetBrains IDEs, Microsoft Office, UML, Visual Studio, VIM

Operating Systems

MacOS/OSX, UNIX/Linux, Windows

HONOURS

Certificate of Recognition

Seneca College

April 2017

Certificate of recognition from Seneca Applied Research & Innovation for contributing as a Research Assistant on applied research projects.

President's Honour List

Seneca College

Winter 2015, Fall 2015, Summer 2015, Winter 2016

Achieved a GPA of 4.0.

Promoted from assistant to grower

Geremia Greenhouse

August 2012

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- **Web Application Development with JavaScript and MongoDB**

2016. Coursera.org. Grade: 100%

- **Algorithmic Toolbox**

2016. Coursera.org. Grade: 83.1%

- **Machine Learning Foundations: A Case Study Approach**

2016. Coursera.org. Grade: 95.5%

- **Algorithms, Part I**

2016. Coursera.org. Not graded, offered by Princeton University

- **Capstone: Analyzing (Social) Network Data**

2016. Coursera.org. Grade: 98.9%

- **Programming for the Internet of Things Capstone**

2016. Coursera.org. Grade: 100.0%

- **Interfacing with The Raspberry Pi**

2016. Coursera.org. Grade: 100.0%

- **Up and Running with COBOL**

2016. Lynda.com. Duration: 3.5 hours

- **Data structures: Measuring and Optimizing Performance**

2015. Coursera.org. Grade: 97.7%

- **The Raspberry Pi Platform and Python for the Raspberry Pi**

2015. Coursera.org. Grade: 98.8%

- **Interfacing with The Arduino**

2015. Coursera.org. Grade: 100%

- **The Arduino Platform and C Programming**

2015. Coursera.org. Grade: 100%

- **Introduction to the Internet of Things and Embedded Systems**

2015. Coursera.org. Grade: 100%

- **Up and Running with Node.js**

2015. Lynda.com. Duration: 1 hour

- **Up and Running with Git and GitHub**

2015. Lynda.com. Duration: 1.3 hours

- **iOS App Development with Swift Essential Training**

2015. Lynda.com. Duration: 6 hours

- **Swift Essential Training**

2015. Lynda.com. Duration: 3.5 hours

- **iOS Game Development with Sprite Kit**

2015. Lynda.com. Duration: 3.5 hours

REFERENCES

Available upon request.

PERSONAL PROJECTS

Visit <http://hcoelho.com> for details

Rutilus

Node.js (JavaScript) + MongoDB

An open-source application that allows you to record and analyze user activity, as well as profiling users based on their behaviour and generate content recommendations.

<https://gmrutilus.github.io/>

Interactive Maps

Java

Interactive map application (similar to Google Maps) with interactive overlays: recent earthquakes and areas under risk, location of airports and their routes, and more.

Social Circles and Friendship Suggestions

Java

An application that uses real data from Facebook and displays users and their connections. An algorithm recommends new connections based on the social circles the user belongs to.

Automated Greenhouse Controller

Raspberry Pi and Python

Device that controls the environment of a greenhouse, aiming for the optimal conditions for plants. It activates the actuators depending on the readings from temperature, humidity, brightness and rain detectors. The actuators can also be remotely monitored and controlled.

OTHER INTERESTS

Cooking, music, puzzles, playing guitar and bass.