Sebestien Palmerio

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Technical Skills

Languages | Python, C, Racket, Maple, HTML/CSS

Tools | Jupyter Notebook, NumPy, SciPy, matplotlib, Git, SQLite

Work Experience

Online Learning Assistant — September 2020 - December 2020

University of Waterloo

- Worked directly with Dr. Joseph Sanderson to improve the quality of course content and online assessments for the University of Waterloo's Physics 1 (PHYS 111) using Möbius.
- Used Maple to develop and enhance assessment problems, reducing code by up to 15%.
- Communicated with a dynamic group of other Online Learning Assistants (OLAs), Senior OLAs, and Dr. Sanderson weekly to drastically improve workflow.

Production Associate — May 2019 - August 2019

Honda Manufacturing Canada

- Completed quality control of manufactured car parts in the Stamping department. Parts required specific and thorough inspection processes and approached as quickly as every six seconds.
- Exceeded expectations to maintain quality and received a perfect student review at the end of the contract.

Relevant Projects

Pysics (Personal Project) - github.com/sebpalmerio/pysics

- A Computational Physics Python Library based on the text - Computational Physics by Mark Newman.
- Includes methods of integration and differentiation, root finding, BVPs, and Monte Carlo simulations.

MyInterviewer (NewHacks 2020 Project) - github.com/sebpalmerio/MyInterviewer

- A web application based interview prep platform for non-native English speakers.
- Integrated Google Cloud Text-to-Speech & Speech-to-Text APIs in Python and assisted with front-end integration using a GC Storage bucket.

ravenous (Codecademy Project) - github.com/sebpalmerio/ravenousProject

- A React web application designed to search the web for businesses by best match, highest rating, or most reviewed using the Yelp API.
- Written with HTML/CSS, JavaScript and used AJAX for Yelp API requests.

Relevant Courses

- UWaterloo: Introduction to Computer Science 1 and 2, Introduction to Computers and Computer Systems, Elementary Algorithm Design and Data Abstraction, Data Types and Structures, Algorithmic Problem Solving, Computer Applications in Business: Databases, Computational Physics 2.
- Codecademy: Machine Learning Course, Front-End Development with React Course.

Education

Candidate for Bachelor of Science in Mathematical Physics — 2018 - Present

University of Waterloo

- Majoring in Honours Mathematical Physics (Co-op) with a Computing Minor.

Awards and Activities

- University of Waterloo Merit Scholarship (2018), Ontario Scholar (2018)
- Hockey Goalie - 3x Most Dedicated, 1x Goalie of the Year
- Orientation Team Leader for Banting Memorial High School (2017)