Ivor Benderavage

SOFTWARE DEVELOPER | PROJECT MANAGER

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Skills

Tools Linux, Git, SVN, SQL, ElasticSearch, REST API, Flask, Jekyll, Docker, TravisCI, FPGA, ESP8266, embedded systems

Programming Python, C, C++, Java, VHDL, assembly (various), HTML, CSS, Matlab, LaTeX

Languages English, French

Experience

Faculty of Engineering, University of Ottawa

Ottawa, Ont.

Teaching Assistant · Project Manager

09/2018 - 04/2020

- Managed design projects undertaken by students enrolled in undergraduate engineering design courses.
- Delivered engineering design lab content to students, including labs on Arduino, Matlab, PCB design, soldering, 3D printing, and laser cutting.
- Oversaw students' meetings with clients and graded their progress throughout the term.

Solace

Kanata, Ont.

Software Developer (Intern)

05/2019 - 08/2019

- Performed Python and C++ maintenance work on a production-level RESTful API as a component of event broker software.
- Investigated bug reports and tested bug patches on software and hardware event brokers.
- Ensured documentation was properly generated and accurately reflected code structure.
- Ensured continuity of QA tests between releases.

Solace

Kanata, Ont.

Support Engineer (Intern)

05/2018 - 08/2018

- Addressed support and enhancement requests from clients.
- Developed bash scripts to streamline the process of handling support requests.
- Assisted clients with technical queries pertaining to the Python, C++, Java, .NET, and NodeJS event broker API offerings.
- Configured and debugged PubSub+ hardware and software event brokers.

Projects

Data from Home Built an IoT mesh network for sensing environmental data in C++ using ESP8266/ESP32 microcontrollers, Raspberry Pi, and various sensors; data stored in SQLite database and served in a Flask web app.

MIPS in VHDL Designed a 32-bit MIPS microcontroller in VHDL; design featured a five-stage instruction pipeline, hazard detection, and hazard avoidance, and could run MIPS assembly programs using an FPGA.

Education

University of Ottawa

Ottawa, Ont.

B.A.Sc. in Computer Engineering (bilingual)

09/2015 - 07/2020 (anticipated)

- IEEE Canadian Foundation scholarship (2019)

Extracurricular Activity

IEEE uOttawa student branch

Ottawa, Ont.

VP Communications · Director of McNaughton Resource Centre

09/2017 - 04/2019

- Organized and hosted a series of coding interview workshops for software engineering students seeking internships.
- Procured lab equipment (soldering stations, oscilloscopes, computers) for our lab and instructed students on how to use them.

uOttaHack

Ottawa, Ont.

Marketing Coordinator · Advisor

04/2017 - 02/2020

- Helped to launch and run uOttaHack, the University of Ottawa's first hackathon.
- Liaised with local media outlets, communicated with participants through social media, and assisted with development of the website.