

Ivor Benderavage

SOFTWARE DEVELOPER

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About Me

New graduate seeking a software engineering position in a growth-oriented setting. Motivated, team-oriented software developer experienced in IoT, high-traffic RESTful APIs, and embedded systems — but open and eager to take on any type of software development role. I love exploring creativity through writing software, working in a multi-disciplinary team, and learning about new technologies.

Skills

Technologies	Linux, Bash, Git, SVN, REST API, CI tools, SQL, ElasticSearch, Flask, Jekyll, TravisCI, FPGA, ESP8266, embedded systems
Programming	Python, C++, C, Java, VHDL, assembly (various), HTML, CSS, Matlab, LaTeX
Languages	English (fluent), French (fluent), Spanish (limited)

Experience

Solace

Kanata, Ont.

SOFTWARE DEVELOPER (INTERN)

05/2019 - 08/2019

- Ensured continuity of service of a production-level RESTful API by identifying bugs and implementing fixes in C++ and Python.
- Investigated bug reports and tested bug patches in a large production-level codebase.
- Improved coherence and consistency of RESTful API features by keeping documentation patterns up to date.

Faculty of Engineering, University of Ottawa

Ottawa, Ont.

TEACHING ASSISTANT & PROJECT MANAGER

01/2019 - 04/2020

- Responsible for managing design projects undertaken by students in engineering design courses.
- Instructed 20-30 students in a lab setting, including labs on project management, Arduino, PCB design, 3D printing, and laser cutting.
- Oversaw students' progress through the term and guided them through the changes brought on by the COVID-19 lockdown.

Solace

Kanata, Ont.

SUPPORT ENGINEER (INTERN)

05/2018 - 08/2018

- Developed communication skills by addressing support and enhancement requests from over 50 client companies.
- Coordinated with an off-shore support team to serve clients in different time zones.
- Streamlined the process of handling support requests by developing Bash scripts.
- Assisted clients with technical queries pertaining to the Python, C++, Java, .NET, and NodeJS API offerings.

Projects

Data from Home

Built an IoT mesh network for sensing environmental data in C++ using ESP8266/ESP32 microcontrollers, Raspberry Pi, and various sensors, with data stored in an SQLite database.

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 (IN FRENCH)

09/2015 - 07/2020 (anticipated)

- IEEE Canadian Foundation Scholarship recipient (2019)
- SITE Nortel Networks Scholarship recipient (2015)

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 trained 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.