Ivor **Benderavage**

SOFTWARE DEVELOPER

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About Me

Seeking a software engineering position in a growth-oriented and team-based 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, 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*

- 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.*

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 very large production-level codebase.
- **Improved coherence and consistency** of RESTful API features by keeping documentation patterns up to date.

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.