

DIMA ISMAIL

Software Engineer

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📍 Mississauga, ON

🌐 dimaismail

🔗 dima028

EXPERIENCE

Software Developer Intern

Caseware International Inc., Data Analytics

📅 Jan 2020 – Aug 2020 📍 Toronto, ON

- Developed online-imports bindings to bind Caseware platform to existing accounting software & enable online imports using 3rd party API.
- Developed & maintained features in Caseware SDK to enable distributors access to develop their own local bindings.
- Communicated with international Caseware distributors regarding binding and SDK limitations, features, and scope.

Undergraduate Research Assistant

University of Guelph, School of Computer Science

📅 May – Aug 2019 📍 Guelph, ON

- Developed & maintained scripts in Python & R for data-driven work in Muscular Potential bio-signals processing applications & research.
- Ran virtual experiments to gather simulated experimental and gold standard data. Drafted experiment and results sections of conference paper.

Undergraduate Research Student

Sunnybrook Research Institute, Biomarker Imaging Research Lab

📅 May – Dec 2018 📍 Toronto, ON

- Developed UIs in Python & MATLAB to automate & optimize processes.
- Leveraged image processing & ML tools for digital pathology analyses.
- Trained users from non-technical background on the UIs developed.

Undergraduate Engineering Work-Study Assistant

University of Guelph, Thornborough School of Engineering

📅 May 2017 – Apr 2018 📍 Guelph, ON

- Conducted wet-lab experiments, prepared figures, & co-authored article.
- Developed experiment simulations in MATLAB to develop gold standard.

PUBLICATIONS

📄 Journal Articles

- Spotts, I., D. Ismail, et al. (2018a). "Fibre-optic sensing in digital microfluidic devices". In: *Sensors and Actuators A: Physical* 280, pp. 164–169.

👥 Conference Proceedings

- Spotts, I., C. A. Leclerc, et al. (2020). "A scalable fibre-optic sensing architecture for lab-on-a-chip devices". In: *Proceedings of SPIE Photonics West*. San Francisco, CA.
- Spotts, I., D. Ismail, et al. (2018b). "Optical sensing in lab-on-a-chip systems with embedded fibre-optic cables". In: *Presentation at Photonics North*. Montreal, QC.

EDUCATION

B.Eng. in Systems & Computing

University of Guelph

📅 Sept 2015 – Dec 2020

STRENGTHS

Team-player Ambitious Self-led
Meeting-efficient Problem solver

API integration Data Analytics & ML
Product Maintenance User Support

LANGUAGES

Node.js

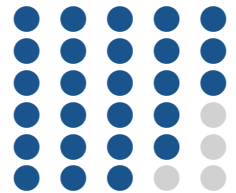
Python

Java

Git

Typescript

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ENGAGEMENTS

🏆 Awards & Challenges

- Schnarr "I am a Gryphon" (Mar 2020)
- WinHacks: Peoples' Choice (Mar 2020)
- DeltaHacks V: The Forge "Outstanding Tech" & TD AI Challenges (Jan 2019)
- Canadian Life Hacks Alexa Skills Hackathon: 2nd place (June 2018)
- Guelph Senior Engineering Design Competition - 2nd Place (Nov 2017)
- ATS (Automation Tooling Systems) Design Competition - 2nd Place (Jan 2017)
- Guelph Junior Engineering Design Competition - 3rd Place (Nov 2016)

👥 Conferences

- Professional Engineers of Ontario (PEO) Student Conference (Sept 2020)
- Canadian Federation of Students Annual General Meeting (Nov 2019)
- ConversAction: Race Matters (Nov 2019)
- Diversity in Engineering (Nov 2018)
- Ontario Molecular Pathology Research Network: Pathology Matters (Oct 2018)