Selim Belhaouane

📞 +1 (514) 891-9225 ⚪ /selimb

✉ selim.belhaouane@gmail.com in XXX

Resourceful software engineer with 5+ years in developing web applications, CAE solutions, and developer tools. Passionate about automation, CI/CD, test-driven development, types, and documentation. Loves both learning and teaching.

experience

MAYA Heat Transfer Technologies Ltd. Montreal, Canada
Team Lead, Full Stack *2020-Now*

Lead development for *Remote Simulation*: an on-premise distributed HPC platform integrated with Simcenter 3D.

- Architected entire system: backend web server, frontend single-page application, Simcenter 3D client, and background job runners.
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- XXX Onboarded, reviewed, and

`Django` `FastAPI` `React` `Typescript` `PostgreSQL` `Docker` `C++` `Qt`

Technical Lead, Full Stack *2020-2021*
XXX
CAE/CAE Software Developer *2017-2020*

Develop robust NX Open programs for CAD/CAE applications.

- Foo

`Python` `C++`

Test Engineering Intern *2014-2015*

Test Siemens PLM CAE software, and Thermal/Flow solvers.

McGill Centre for Intelligent Machines Montreal, Canada
Undergraduate Researcher *Summer 2013*

Realistic modeling of friction forces at contact between rigid bodies.

`MATLAB`

education

M.Eng Thesis McGill University
Mechanical Engineering *2015-2017*

Master's in computational fluid dynamics, sponsored by Maya Heat Transfer Technologies.

- Thesis on implementation and validation of turbulence model in academic and commercial (NX Flow) finite volume codes.
- Use NX Open, Tecplot and Python for pre-processing and/or post-processing purposes.
- Develop web interface for querying test suite.

`Python` `Matplotlib` `Tecplot` `C++` `Fortran` `JQuery`

B.Eng McGill University
Mechanical Engineering *2011-2015*

Capstone project with McGill Racing Team (Formula SAE)

- Carbon fiber steering wheel analysis, design and fabrication
- Use of NX for analysis and design

CGPA : 3.68/4.0

certifications

Agile Foundation Training *October 2019*

skills