Selim Belhaouane

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Resourceful software engineer with 6+ 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

Loopsin Inc. Montreal, Canada

2022-Now Technical Lead

Started and lead full-stack development of a remote video monitoring solution with machine learning technology for a large security company.

Python Typescript React Next.js PostgreSQL Azure OpenShift

MAYA Heat Transfer Technologies Ltd.

Montreal, Canada

Team Lead

2020-2022

Started and lead full-stack 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 job runners.
- · Lead daily stand-ups and sprint reviews.
- Introduced C++Docker development at Maya.

Django | FastAPI | React | Typescript | Cypress | Nginx | PostgreSQL | Docker | C++ |

2018-2020 Technical Lead

Lead development for custom NX Open applications.

- Lead software development guild meetings for project in a large organization.
- Developed Python library and tools to be used by engineers for rapid application prototyping. Also wrote extensive documentation and training material for the library.
- Onboarded, code-reviewed, and mentored junior developers.

Python

Individual Contributor 2017-2018

Developed custom NX Open applications for Siemens NX.

Python C++ NET Framework

Test Engineering Intern 2014-2015

Tested Siemens NX software and integrated solvers.

education

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

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.
- Used NX Open, Tecplot and Python for pre-processing and/or post-processing purposes.
- Developed web interface for querying in-house test suite, which is seen as an essential part of the development process today.

Python Matplotlib Tecplot C++ Fortran MPI (Query

McGill University B.Eng Mechanical Engineering 2011-2015

Designed and manufactured carbon fiber steering wheel as part of Capstone project with McGill Racing Team.

Gave extracurricular classes on LATEX.

Python MATLAB C Fortran ATEX

certifications

Agile Foundation Training October 2019