

# Jean Turgeon

## Senior Software Engineer

📞 1.902.242.2110 (ATL, GMT-4)  
🌐 <https://www.linkedin.com/in/jean-turgeon-47363a287/>

@ [jean\\_turgeon@ymail.com](mailto:jean_turgeon@ymail.com)  
📍 North Kingston, Nova Scotia

## Experience

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### Senior Software Engineer

#### Global Spatial Technology Solutions

📅 02/2022 - 08/2023, 📍 Dartmouth, Nova Scotia.

##### Company Description

- Created Docker base images pre-packaged with necessary configurations and dependencies, which allows developers to cut project setup time by 50%.
- Refactored many of the AIS ingestion pipeline processes (Lambda), rewriting some from R to Python.
- Refactored the CI/CD pipeline to include unit and integration testing, resulting in catching 100s of previously undetected issues and raising code quality.
- Developed a unit-tests library and API for the back-end developers, which helped raise code coverage to 60% from 0%.
- Improved software performance by optimizing code and algorithms for the vessel greenhouse emissions calculation service, reducing batch processing time from 6+ hours to 15 minutes.
- Developed a pre-commercial prototype IoT device for ship maintenance and failure prediction with machine learning models.

### Senior Software Engineer

#### MDA Corporation (Defence)

📅 09/2017 - 12/2021, 📍 Dartmouth, Nova Scotia.

##### Company Description

- Developed efficient system interfaces (AIS, OTH) for naval C4ISR capable of translating 100,000 tracks with an update rate of less than 5 seconds.
- Implemented complex track processing algorithms capable of maintaining 1000 track updates per minute.
- Built a flight booking application capable of handling 100% of DND personnel transportation needs during the holidays.
- Developed tracking, telemetry, and command analysis tools for a satellite ground station capable of producing customizable reports from a live satellite feed.
- Created sets of Ansible scripts that build ISO installation files to deploy underwater sonar analysis solutions for navy ships.
- Wrote software requirement (SRS), design (SDD), and system administration (SAM) documentation.

## Summary

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Experienced software engineer with 20+ years of experience in a wide array of technologies. With years of research and development in the aerospace, defence and ocean technology sectors. Capable of delivering highly innovative, disruptive technologies and development of pre-commercial solutions. Enjoying problem-solving and learning new technologies.

## Languages

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**English**, proficient.  
**French**, native language.

## Skills

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**Programming**: BASH, Java, JavaScript, OOP, Perl, Python, R, Script, SQL, TDD, Typescript.

**Framework**: AngularJS, Django, FastAPI, Spring Boot.

**Web**: CSS3, HTML5, JSON, OpenAPI, REST, XML.

**AWS**: Athena, Cloudformation, EC2, ECS, Eventbridge, Greengrass, IoT, Lambda, S3, RDS.

**Databases**: MongoDB, InfluxDB, PostGIS, PostgreSQL.

**DevOps**: Ansible, CI/CD, Docker, Git, Jenkins, Kafka, Kubernetes, Kuberetic, k8s, Linux, Postman, Subversion, VxWorks, Windows.

## Business Analyst

### County of Grey

📅 11/2015 - 09/2017, 📍 Owen Sound, Ontario.

#### Company Description

- Developed multiple ETL solutions for administrative and accounting applications to support 360 employees.
- Produced a Perl plugin for Request Tracker to keep track of IT department projects.

## Java Developer

### Superior Glove Works Ltd

📅 03/2012 - 11/2015, 📍 Acton, Ontario.

#### Company Description

- Implemented an integrated EDI solution that allows the daily processing of at least \$250,000 worth of purchasing orders.
- Created an ETL service linking internal ERP and Salesforce, which reduced hours taken by the sales associate team by 20%.
- Developed mobile applications to help the sales team close an additional 10% of sales.
- Directed Agile activities with a team of 5 developers: sprint planning and retrospective, backlog grooming, daily standup, and communication with management.

## Senior Software Engineer (Contract)

### MDA Corporation (Robotics)

📅 10/2011 - 03/2012, 📍 Brampton, Ontario.

#### Company Description

- Prototyped a remote navigation console for a robotic vehicle.
- Designed a GUI library: avionic, mapping, and sensor widgets.

## Education

### Master's Degree in Computer Information Technology

#### Regis University

📅 2002 - 2006

### Graduate Diploma in Management (DESG)

#### École des Hautes Études Commerciales

📅 1994 - 1996

### Bachelor's Degree in East Asian Studies

#### Université de Montréal

📅 1989 - 1993

### Bachelor's Degree in Economics

#### Université Laval

📅 1985 - 1989

## Domain

**Maritime:** ACP-127, ADatP-3, AIS, APP-6c, Marix, Niris, Nvg, OTH, OTH-Overlay, NATO STANAG.

**EDI:** ANSI X12 v.4010: 753, 754, 810, 820, 824, 846, 850, 855, 856, 860, 865, 997.

## Status

Canadian citizen.  
Married.

## Clearances

Canada, Confidential (2022).  
Canada, Controlled Goods (2022).  
NATO, Secret (2018).  
U.S., ITAR (2011, expired).

## Interests

Keeping alive antique computers.  
Dairy sheep.  
Sailing  
Travelling.

