

# MARC-ANDRE BEAUDRY

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## SUMMARY

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I'm a technology enthusiast that like working with varied technologies to get the job done. I currently work with Java & Typescript on my core projects, but I'm also flexible and do Python or Perl for infrastructure related scripting. I look forward to work on projects where I can take ownership to deliver solutions that are robust and easily maintainable.

## EDUCATION

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**Sherbrooke University, Sherbrooke**

*December 2014*

Bachelor's Degree, Computer Engineering (GPA 4.19/4.3)

## WORK EXPERIENCE

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**Morgan Stanley, Enterprise Infrastructure**

February 2015 - Present

*Technology Associate*

*Montreal, Canada*

- Developed a system for visualizing and analysing trading infringements. This real-time system was engineered using both KDB and DB2 for the storage, Java Spring for the backend and C# WPF frontend.
- Architected and developed a microservice infrastructure using Java Spring and Apache Zookeeper. This architecture allowed seamless upgrade with the use of dynamic service discovery and registration.
- Worked with Marklogic NoSQL database as a graph database for our infrastructure configuration management system. Built an automated deployment system allowing the creation of a cluster database with fail-over replica.
- Created custom tools, compatible with Morgan Stanley infrastructure, used for the monitoring and deployment of containers. (Equivalent to Docker)
- Engineered and built the automated deployment workflow for microservices. This reduced the amount of manual intervention when deploying new microservices to the internal cloud infrastructure and allowed simple promotion workflow between environments.

**TM4 Inc.**

Fall 2012 & Fall 2013

*Software developer - Intern*

*Boucherville, Canada*

- Designed and deployed a software and hardware system for the characterization of electric motors.
- Designed a safe housing containing the necessary appliances used for the characterization of electric motors.
- Developed new features for applications used internally by TM4, using the .NET environment.
- Interfaced measurement devices using C++ libraries for applications in C#.
- Debugged and fixed several issues in applications.
- Debugged the data acquisition equipments and implemented solutions to correct hardware problems.

**IBM Canada, Automation Department**

Summer 2011 & Spring 2012

*Programmer - Intern*

*Bromont, Canada*

- Developed an application in Java used for the versioning of electrical and mechanical drawings. This application drastically reduced the time required for documentation and allowed a better control of document entitlements (Required by OIQ).

- Designed an application for controlling measuring devices. The application allowed the generation of automated sequences, allowing easier operation of these devices.
- Developed new application features for the automation department using Java and Visual Basic.
- Qualified and deployed applications for industrial production automation.

## UNIVERSITY PROJECTS

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### **PrimeTrader**

2013 - 2014

*2-person project*

- PrimeTrader is a complete infrastructure for day trading. It is composed of an ergonomic desktop trading application, an efficient backend infrastructure for realtime tick-by-tick market data handling and a playback mechanism for market simulation.
- Developed the multiscreen desktop trading application using C# WPF.
- Developed the backend service using .NET technologies.
- Built a plugin architecture, allowing the addition of new technical indicators without modification of the existing code.
- Developed a tick-by-tick market simulator, enabling the testing of new indicators with historical trade data.
- Interfaced with multiple market data provider such as IQFeed (Tick-by-tick data), Interactive Brokers (L2 Market Data) and Yahoo Finance (Historical Data).
- Interfaced with Interactive Broker API for order and portfolio management.

### **TimeTracker**

2014

*Final year project in collaboration with Wolters Kluwer*

- TimeTracker is a business grade time tracking solution for the specific domain of accounting. It allows seamless monitoring of user interactions on a windows based machine. The system is also fully integrated with the standard Microsoft Office suite. A user friendly dashboard is provided for both manager and user in order to optimize the client billable time.
- Designed and developed a desktop application using .NET WPF framework.
- Created an improved UX to display efficiently multiple work task on a single application screen.
- Developed the backend service using .NET technologies and WCF as the communication framework.

## TRAINING

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### **Morgan Stanley**

February 2015

*Technology Associate Program*

- 10 weeks training by the renowned specialists of Mallon Associates.
- Languages covered : Java, C#, C++, Scala, Python and Javascript.
- Multiple programming paradigms : procedural, object oriented, functional, generics.
- Architecture of large system.
- Unix and Windows.

## HONORS & AWARDS

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### **Medal of merit**

October 2014

- Highest distinction given by the faculty to students. Recognise the academic excellence, extracurricular activities and professionalism.

### **Joseph-Armand Bombardier scholarship**

November 2013

- Scholarship for academic excellence.