

# Danny Boyer, Jr. Eng.

Montreal

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French/English



## Work experiences

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### Technology Associate

February 2016 – Present

Morgan Stanley, Montreal/New York

- Implemented and Refactored reporting tools for financial controllers (C#, Java, Prime Brokerage Funding & Finance Technology division)
- Designed and Implemented a visualization tool that helps identify infrastructure and data dependencies between systems (AngularJS, Node.js, Java MarkLogic)
- Technology Analyst Program: 15 weeks of professional training in C++, C#, Java, Scala, Operating Systems, Concurrency, System Architecture, Database Technology (New York)

### Full-Stack Software Developer

September 2014 – January 2016

Solutions Medias 360, Montreal

- Successfully solved a scalability and reliability problem by moving a static infrastructure to a fully load-balanced and auto-scalable cloud solution (AWS)
- Improved the overall performance of the systems by extracting the user's session in a Redis cluster, rendering most services stateless
- Added robustness to the overall system by breaking a monolithic system into smaller services
- Optimized deployment time and ease by compiling applications to Docker images, instead of using custom recipes for each service, thus unifying the whole process
- Helped improve the team's management processes by re-prioritizing the backlog weekly, outside of the longer meeting

### Lab Assistant

April 2014 - August 2015

ETS, Montreal

- Helped students learn and apply software design patterns
- Taught students to develop object-oriented software by applying a set of principles and software engineering heuristics
- Instructed students to develop software in an iterative and evolutionary process, including analysis and design (Java, C#, Ruby, JavaScript, Python)

### Backend Software Developer

May 2013 - August 2013

Nexalogy, Montreal

- Added and extended the functionality of the main API (PaaS, PHP, MySQL)
- Facilitated integration with 3<sup>rd</sup> party by developing a client library (PHP, JavaScript)
- Optimized the business process by creating administration tools for automating tasks (JavaScript, MySQL)
- Improved the testing procedures ensuring the integrity of the API

**Backend/Frontend Software Developer****December 2012 - August 2013**

AEROETS, Montreal

- Created a custom content management system (CMS, MySQL, PHP, JavaScript)
- Developed a security layer for CMS (SQL Injections, Brute Force, XSS)

**Web Developer****January 2012 - April 2012**

Canadian Space Agency, Saint-Hubert

- Redesigned the official website and did quality assurance (HTML5, W3C, CSS, JavaScript)
- Wrote "toolbox" documentation for the web team
- Enforced standards of web accessibility
- Attended training in HTML5 (TECHNOLOGIA, Montreal)

**Web Developer****May 2011 - June 2011**

Society of Arts and Technologies, Montreal

- Created a program for an interactive advertising terminal (40" Touch Screen, Adobe Flash)
- Worked on an online media library using web services (SoundCloud, YouTube, JavaScript, jQuery)

**Education**

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**BACHELOR OF ENGINEERING Information Technology****May 2015**

École de technologie supérieure (ETS); GPA: 3,56

University of Quebec, Montreal

**School project**

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**BILLETS****December 2014**

Architected and developed a website in Java (JEE / Spring MVC) for online sale of tickets for shows and designed to respond to a given number of requests in a short time. Managed a team of four using GitHub. Used Hibernate and PostgreSQL for persistence.

**Other technologies:** Travis CI, New Relic, Maven, Bootstrap

**Link:** <http://dannyboyer.ca/projects/billets.html>

**Interests**

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- Architecture, Parallel Calculation, Cloud Computing, Web Development, Video Games, Mobile Application, Distributed Systems
- Music (Drums, Guitar), Entrepreneurship

You can check some of my work on [github.com/dannyboyer](https://github.com/dannyboyer) or at [dannyboyer.ca](http://dannyboyer.ca).