

# Martin Lévesque

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## Summary

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- Enthusiastic senior software developer with more than 6 years experience in the web industry.
- Ability and interest to explore quickly emerging technologies.
- Interests on applied research, startups, and open source.

## Experiences

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- 10/2017 - ... · Web Developer, *Ubisoft*, Montréal, Canada.
- Internal CI/CD deployment tool (called Publishing Pipeline - PUP) used to deploy Ubisoft games and online services worldwide.
  - REST and GraphQL APIs design and development.
  - Main techs used: Node.js, REST, GraphQL, MongoDB, redis, Angular, socket.io for streaming events, deployed as Dockerized Microservices, and more.
- 10/2016 - 10/2017 · Concepteur Logiciel Web, *GSI Électronique Inc.* (AGCO Corp.), St-Hubert, Canada.
- Data acquisition and data analysis via smart farming controllers.
  - Cloud AWS backend of 10-15 servers, big data environment (NoSQL). Mnubo (Big Data company from Montreal) is used to store million of events per day.
  - Real-time remote visualization via HTML, Angular, and web sockets.
  - Agile methodology, Atlassian tools (JIRA, Confluence, bitbucket).
  - Automated tests via Mocha.
  - Main technologies used: Node.js, Redis, MySQL, Angular 1, web sockets, JSON. The backend is fully based on Node.js 6 with REST APIs.

- 05/2016 - 10/2016 · Senior Web Developer, *Mentel*, Montréal, Canada.
- Develop and maintain cutting-edge web platforms, mainly using Ruby on Rails, Javascript-Coffeescript, HTML5, CSS3, PostgreSQL.
  - Monitor the websites performance and fix bugs.
  - Automated testing.
  - Exchange with clients to transform requirements into working solutions.
  - Make time estimate of new projects, schedule monitoring.
- 08/2015 - 05/2016 · Senior Software Developer, *IOU Financial*, Place Ville Marie (Montréal, Canada).
- Maintain and develop a loan financial platform. The platform is used by hundreds of financial agents located mainly in USA.
  - Write RSpec tests while changing or adding fonctionnalités.
  - Automated testing with TeamCity (JetBrains) and resolve Quality Assurance (QA) issues with the QA team.
  - Fix reported bugs.
  - Software management following an Agile methodology using JIRA (Atlassian) integrated with bitbucket - team of about 10 developers.
  - Big Data environment - finance framework with thousands of transactions per day.
  - API integration with third-parties: Canada Post (AddressComplete), Equifax, etc.
  - *Technologies*: Ruby on Rails, CoffeeScript (and Javascript), RSpec, HAML, HTML5/CSS3, JQuery, MySQL, REST, SOAP, git (bitbucket).
- 09/2014 - 08/2015 · Postdoctoral Fellow and Visiting Research Assistant, *University of Pittsburgh*, PA, USA.
- Topic: Secured and synchronized internetworking smart grid communications.
- 2011 - 2014 · PhD in Telecommunications, INRS, Montréal, Canada.
- Advanced Fiber-Wireless networks for smart grids: Design, performance modelling (using python), and co-simulation (C++, OMNeT++).
- 06/2013 - 09/2013 · Research internship, *EDF R&D*, Clamart, France.
- Topic: Advanced Smart Grid Multi-Simulation.
- 2009 - 2011 · Software Developer, *Codency (wordans.com)*, Montréal, Canada.
- Software development and optimization of high traffic websites and file sharing systems.
  - *Technologies*: Ruby on Rails, Java, Javascript, HTML/CSS, JQuery, MySQL.

- 2006 · Software Developer, *Consortech*, Brossard, Canada.  
Maintain and write softwares managing building plans. Technologies : C, C++.
- 2005 · Software Developer, *M.A.G. Integration*, St-Jean-sur-Richelieu, Canada.  
Transactional websites using Magic eDeveloper.

## Recent Open Source and Side Projects

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- <https://www.openode.io/> Cloud application platform project allowing to deploy quickly tiny to large websites at low cost.
- NPMs: <https://www.npmjs.com/~martinlev>.
- GitHub: <https://github.com/martinlevesque>.

## Computer Skills

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- Advanced software development: Optimization, simulation, mathematical modeling, caching, network and Web programming, etc.
- Languages: Javascript, Ruby, Elixir, C# .NET, Python, Coffeescript, C/C++, Matlab, Java, Bash, PHP, etc.
- Backend/frontend Frameworks: Node.js, Ruby on Rails, Phoenix (Elixir), Vue.js, Angular.
- Editors: Atom, vim.
- Automated testing: Mocha.js, expect.js, Minitest, Rspec.
- Containers: Docker, docker-compose, Kubernetes.
- Management: JIRA, Redmine.
- Version control: Git, Mercurial, SVN.
- Relational databases: MySQL, PostgreSQL, MS SQL, Oracle, etc.
- Document databases: MongoDB.
- Key-value store: Redis, memcache.
- Streaming, queuing, messaging: socket.io, kafka, zeromq.
- Operating systems: Linux, Mac, Windows.

## Education

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- 2011 - 2014 · PhD in Telecommunications at Institut National de la Recherche Scientifique (INRS), Université du Québec, Montréal, Canada (*Distinction: Excellent*).
- 2008 - 2010 · Master in Computer Science at Université du Québec à Montréal (UQAM), Montréal, Canada (*Distinction: Excellent*).
- 2005 - 2007 · Bachelor in Computer Science and Software Engineering at Université du Québec à Montréal (UQAM), Montréal, Canada.

## Academic Awards and Scholarships

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Most of my research publications are available on Google scholar, <https://scholar.google.ca/citations?hl=fr&user=LrKNNfoAAAAJ>.

- 2014 - 2016 · Postdoctoral fellowship. Awarded by *Natural Sciences and Engineering Research Council of Canada (NSERC)*.
- 2013 · SYTACom (McGill University, Canada) International Internship Scholarship.
- 2012 - 2014 · Doctoral scholarship. Awarded by *Fonds de Recherche du Québec - Nature et Technologies (FRQNT)*.
- 2008 - 2009 · Master scholarship. Awarded by *Fonds de Recherche du Québec - Nature et Technologies (FRQNT)*.
- 2008 · Bourse d'excellence de la Faculté des sciences pour les cycles supérieurs. Awarded by UQAM.
- 2007 · Undergraduate research scholarship. Awarded by *Natural Sciences and Engineering Research Council of Canada (NSERC)*.