

Hanneli Tavante

Montréal, QC - Canada

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Education

McGill University	Montréal, QC
<i>PhD Candidate - Computer Science</i>	2020-2024(expected)
Universidade Federal de Itajubá	Itajubá, MG
<i>Master's Degree - Electrical Engineering</i>	2018 - 2019
<i>Bachelor - Computer Engineering</i>	2007 - 2011

Summary and Interests

Software developer with 10+ years of experience. PhD Candidate at McGill University. Available for part-time positions or full time summer positions. LinkedIn: <http://br.linkedin.com/in/hannelita>

- Functional programming, Programming Languages, metaprogramming and Type Theory
- Artificial Intelligence
- Applied Mathematics, Signal Processing, Control systems, Robotics

Academic Experience

Fev 2018 - Dec 2019 **Master's projects at UNIFEI**

- Advisors: Prof. Benedito Bonatto and Prof. Maurilio Coutinho - Universidade Federal de Itajubá
- Secure Cloud - International Research Project (Europe and Brazil) about secure private cloud environments. Role: Develop systems, attend meeting, improve the communication of the team. Supervisor: Prof. Maurilio Coutinho.
- aPTIs-SG2 - Smart Grids laboratory. Role: Developer Student. Supervisor: Prof. Benedito Bonatto
- Publications: "Open Source Implementations of Electromagnetic Transient Algorithms" - INDUSCON 2018 - IEEE
- TA - Deep Learning, Python and Functional Programming extension courses. ([lecture sample](#))
- Student Volunteer at POPL'19, ECOOP'19 and ICFP'19. Student volunteer co-captain for POPL'20
- Summer Schools and Workshops: [PLMW'18](#) (at ICFP'18), [PLISS'19](#) and [OPLSS'19](#)
- PhD Candidate - Computer Science at McGill University (start date: Winter 2020; supervisor: Dr. Pientka)

Industry Experience

Aug 2017 - present **Independent Senior Consultant**

- Build APIs, Big Data, NoSQL, Functional Programming and Machine Learning projects.

June 2014 - Apr 2017 **Senior Developer and Team Leader at Codeminer42**

- Manage and organise worldwide teams, helping them with technical issues.
- Main consulting areas: data analysis, data engineering, integration, database connectors, management of frameworks and libraries, implementation of performance tests, devops.

Oct. 2013 - May 2014 **Middleware Consultant at Red Hat**

- Deal with the customers and propose middleware Java solutions. Propose and manage workshops about Red Hat products for customers and co-workers.

- Understand and interact with sales and business environment, revise sales proposals and solutions.

Nov.2012 - Oct. 2013 **Developer at Top Free Games**

- Build cloud solutions with Heroku and Amazon AWS to increase backend systems performance. Monitor systems availability and performance, create auto-scalable systems, collect and analyse real time data with Cassandra, Kafka and Hadoop. Develop client apps for iOS.

Aug.2011 - Oct. 2012 **Developer and Instructor at Caelum**

- Provide training sessions as an instructor for company's training programs. Assist the students continuously, providing them with information about the IT career and best architecture practices.
- Develop new training programs and improve the existing ones.

Feb. 2011 - Jul. 2011 **Developer at SOA|Expert**

- Propose and build internal system architectures.
- SOA consulting, enterprise integration solutions.

Jan. 2010 - Jan. 2011 **Intern/Developer at B2ML Systems**

- Java (frontend and backend).
- Optimise systems performance, increase team productivity with new frameworks and tools.

Certifications

Machine Learning (Coursera)	2016
Introduction to Mathematical Thinking - Coursera (Stanford)	April, 2015
OCJP - Oracle Certified Java Programmer for Java 6	October, 2010

Complementary Projects

- Uai!rrior Robotics team - Electronics development team. Circuits project, design and optimisation.
- Article "Web social networks meters and business usage analysis" - IEEE on CaSON 2011.
- Open Source Software contributor to Ruby, Java, JBoss, Neo4j, Cassandra.
- Speaker in many [conferences](http://hannelita.com/conferences/) [http://hannelita.com/conferences/] (Brazil, USA, Europe, Argentina and Canada).
- Cassandra MVP 2015, 2016.

Technical Key Skills

Functional Programming, Haskell, Rust, Python, Scala, Java, Ruby, web development, Data Analysis, Spark, Machine Learning, databases, Cassandra, graph databases, Electronics, hardware development.

Extra info

- Github - <https://github.com/hannelita>
 - Slides - <https://slides.com/hannelitavante-hannelita>
 - Languages: Portuguese [native], English [C1]; French [B2]; German[A2]; Spanish [A2]
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