

# Francisco Demontiê dos Santos Junior

---

1075, Rua Tomé de Souza  
Savassi, Belo Horizonte, Minas Gerais  
30140-130  
Brazil

Phone: +55 (31) 99420 7930  
demontiejunior@gmail.com  
<http://demontiejr.com>

---

## Education

M.Sc. Computer Science, Federal University of Minas Gerais (UFMG), Brazil. 2014 – 2016. GPA.: 3.7 / 4  
B.Sc. Computer Science, Federal University of Campina Grande (UFCG), Brazil. 2009 – 2013. GPA: 3.5 / 4

---

## Experience

- Feb 2016 – Jul 2016: **Software Engineering Intern, Google**, Belo Horizonte, MG, Brazil.  
Developed a BMI Calculator, on the search page, that triggers for queries like [bmi calculator]. Also worked on a data mining project (using a framework similar to MapReduce). Using C++, Java, JavaScript, HTML, Bash Script.
  - Sep 2013 – Jan 2014: **Software Engineer, Distributed Systems Laboratory**, UFCG, Brazil.  
Software Engineer in the project Pulsar OpenStack in association to HP R&D (Porto Alegre - RS). The project consists in collaborating with OpenStack. Using Python, SQLAlchemy, Bash Script.
  - Jun 2013 – Aug 2013: **Mitacs Globalink Research Intern, University of Calgary**, Calgary, AB, Canada.  
Developed different caching strategies in order to improve the performance of a Relationship-Based Access Control (ReBAC) API. Using Java, Maven, Bash Script.
  - Jul 2012 – Jan 2013: **Software Developer Intern, E.life**, Homeoffice.  
Working on the development of Data Mining Systems and information retrieval. Using Java, JSF, EJB 3.0, Apache Tomcat 7.0, JBoss Seam, HTML, PHP, JSON.
  - Apr 2011 – Jun 2012: **Software Developer Intern, Software Practices Laboratory**, UFCG, Brazil.  
Information system that models the entire investigations workflow of Brazilian Federal Police Department (Brazil). Using Java, JBoss Seam, Hibernate, JSF, Oracle, RichFaces and TestNG.
- 

## Publications

- **Francisco Demontiê**, Junio Cezar, Mariza A. S. Bigonha, Frederico Campos, Fernando Magno Quintão Pereira, *Automatic Inference of Loop Complexity Through Polynomial Interpolation*. Brazilian Symposium on Programming Languages (SBLP), pp. 1-15. 2015.
  - **Francisco Demontiê**, Filipe de Lima Arcaño, and Mariza A. S. Bigonha. *Um Algoritmo para Emparelhamento de Chamadas de Função*. Brazilian Symposium on Programming Languages (SBLP). 2014.
- 

## Projects

- **NetLex API** (2016). A REST API for NetLex (Brazil). Using PHP, Laravel, JavaScript, Angular.
  - **Asymptus** (2015). A tool to automatically infer function complexity. Using C++, Python, LLVM.
- 

## Awards

- Brazilian Symposium on Programming Languages (Belo Horizonte – 2015) - 3<sup>rd</sup> best paper.
  - Microsoft's Coding Competition (Belo Horizonte – 2015) – Second Place.
  - Paraíba Olympiads in Informatics (Campina Grande – 2010 and 2011) – Silver Medal.
- 

## Technical Skills

- **Java** (proficient), **Python** (proficient), **C++** (previous experience);
  - Hibernate, Oracle, PL/SQL, PostgreSQL, MySQL;
  - **Web development** using **JavaScript** and **JavaEE 5**: JBoss Seam, JSF, EJB 3.0;
  - Other technologies: **LLVM**, Android, XML, HTML, CSS, SVN, Mercurial, Git.
- 

## Languages

**Portuguese** – Native Language.

**English** – Advanced level on reading, understanding, writing, and speaking.  
**TOEIC score: 860** – in October 17<sup>th</sup>, 2013