Emilio Guido ***Almansi***

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Education

ongoing Licentiate in ***Computer Science***, **University of Buenos Aires**
2012 6-year degree, comparable to combined Computer Science Bachelor's and Master Sc. Grade Average: 9.4 out of 10.0. Expected graduation: early 2018.

2011 Bachelor of ***Electronic Engineering***, **Instituto Tecnológico de Buenos Aires**
2009 Completed 18 out of 46 courses. Withdrew in order to pursue Computer Science. Grade Average: 8.2 out of 10.0.

2008 Bilingual Baccalaureate (high-school), **Belgrano Day School**
2004 Spanish and English languages. Specialization in Natural and Exact Sciences.

Work Experience

Aug 2017 Software Engineer at ***Trifacta Inc.***, 6 months, Remote
Oct 2016 Software Engineering Intern, 3 months, Berlin, GER

- Wrote and optimized algorithms for computing data transformation primitives on GCP's Dataflow engine for parallel data processing.
- Developed a time scheduling microservice based on Java Quartz, designed for high availability and resilience.
- Responsible for integration of Google's BigQuery large-scale data warehouse into the product, spanning multiple back-end services (Node.js, Java, Python) and the platform's web application interface (front- and back-end).

Feb 2016 Research Intern at ***Max Planck Institute for Informatics***, Saarbrücken, GER
Aug 2015

- Built a Java tool for exporting Wikipedia's full edit history XML dumps (+10TB uncompressed) into Avro format.
- Extracted the full link structure of all +37M pages and +640M revisions in Wikipedia's edit history. Wrote a data processing pipeline for Apache Spark SQL engine to compute Jaccard-type semantic relatedness scores between pages and various page popularity metrics.

Mar - Aug 2015 Software Engineering Intern at ***Google Inc.***, Mountain View, CA, USA

- Wrote a data-parallel FlumeJava pipeline to be deployed periodically, extracting book series metadata from messy or incomplete data provided by major book partners and yielding +1500 book series.

May - Oct 2012 Software Developer at ***Artfos S.A.***, Buenos Aires, ARG

- Back-end (Yii PHP Framework, MySQL) and front-end (jQuery, HTML, LESS) web development.
- Launched a PHP continuous integration server based on JenkinsCI. Wrote automated UI tests with Selenium IDE.

Technical Skills

Programming Languages	Java, C++, JavaScript, Python. Proficient or strong working knowledge. SQL, Haskell, Bash, LaTeX, MATLAB, Scala. Intermediate or basic working knowledge.
Distributed Computing	Google Cloud: Dataflow, BigQuery, GCS, Apache Spark, Hadoop: HDFS, MapReduce, YARN, Apache Pig, Apache Avro & Parquet, FlumeJava.

Frameworks & Web Dev.	AngularJS, HTML, CSS & SASS, Twitter Bootstrap. Node.js, Express, npm, Bower, Gulp.js.
Developer Workflow	Familiar with issue-tracking systems, peer code reviews, branch-based versioning model, agile methodologies.

Extracurricular Activities

Popularizer at the Computer Science Dept. 2016. Organized and participated in popularization events attended by over 1200 high-school students. Developed a web-based IDE for students to program and simulate an Arduino robot using a block-structured language.

Argentine Programming Contest (TAP) - ACM ICPC regional contest. 2016: ***8th*** place nation-wide. 2014: ***12th*** place nation-wide. 2013: ***10th*** place nation-wide.

Hacks/Hackers Buenos Aires Media Party - Hackaton - 2013.

Spoken Languages

Spanish. Native.
English. Bilingual. ***TOEIC*** (Test of English for International Communication), 2010, score: 975 out of 990.
German. Intermediate. ***Goethe-Zertifikat B2***, Goethe-Institut, 2017, score: 86 out of 100.
Portuguese. Basic. Casa do Brasil levels 1 & 2, 2012, final grades: 9.4 and 9.3 out of 10.0.

Last updated: September 2017.

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Transcript

Licentiate in ***Computer Science***

University of Buenos Aires

Course	***Grade*** (out of 10.0)	***Observation***
Algebra I	9.0	
Algorithms and Data Structures I	10.0	
Algorithms and Data Structures II	10.0	
Algorithms and Data Structures III	9.0	
Computer Networks	10.0	
Computer Organization I	10.0	
Computer Organization II	9.0	
Databases	8.0	
Formal Language Theory	9.0	
Logic and Computability	10.0	
Mathematical Analysis II	-	by equivalency *
Neural Networks	9.0	elective
Mobile Computing	10.0	elective
Numerical Methods	9.0	
Operating Systems	9.0	
Programming Language Paradigms	10.0	
Seminar on Automated Program Analysis	-	elective, ongoing
Statistics and Probability	-	by equivalency *

Grade Point Average: 9.4 out of 10.0

* Granted by equivalency from courses completed while pursuing Electronic Engineering.

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