Matias **Grioni**

SOFTWARE ENGINEER · ML & NLP ENTHUSIAST

Columbus, Ohio

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Education

The Ohio State University   *Columbus, Ohio*

B.S. IN COMPUTER SCIENCE AND ENGINEERING   *May 2018 (Expected)*

- Minors in Mathematics and Linguistics
- GPA: 3.987

Work Experience

Quid, Inc.   *San Francisco, California*

SOFTWARE ENGINEER INTERN   *June 2017 - August 2017*

- Investigated integration of news dataset into existing data acquisition pipeline.
- Use of Apache Spark and Kafka for parallel data processing and news article deduplication.
- Created ElasticSearch clients in Python for automated batch processing of sentiment analysis and Named Entity Recognition (NER).
- Benchmarking system for JavaScript physics engine and porting to Java service on backend.

The Ohio State University   *Columbus, Ohio*

UNDERGRADUATE RESEARCHER UNDER MARIE-CATHERINE DE MARNEFFE   *September 2016 - PRESENT*

- Improved consistency of Universal Dependencies corpora by implementing and building on research in *On Detecting Errors in Dependency Treebanks*.
- Created pipeline for sentiment analysis of Shakespeare plays using Folger's digital texts and Stanford CoreNLP tools.
- Implementing active learning approach in Latin NER system based on Perseus project, TreeTagger, and William Whitaker's words.
- Publication and poster presentation at DepLing 2017, *Assessing the Annotation Consistency of the Universal Dependencies Corpora*.

Battelle Memorial Institute   *Columbus, Ohio*

SOFTWARE ENGINEER INTERN   *May 2016 - August 2016*

- Created Windows app in C# to communicate with oil pipe scanner using Tortoise SVN and Visual Studio.
- Created custom heatmap graph from PictureBox component to visualize results from tool.
- Setup development environment for Element 14 controller with uboot bootloader on C++ project.

Taivara   *Columbus, Ohio*

WEB DEVELOPER   *September 2015 - May 2016*

- Experience with git and agile development to coordinate consulting work amongst 10+ developers.
- Implemented timeout feature, input validation, and tenant styling on credit card application using Ruby on Rails, React, and Redux.
- Updated TicketFire Android app to current framework standards. Experience with RESTful APIs and adding feature to sell tickets.

Awards

2017	**Best Software Hack**, Hack OHI/O	*Columbus, Ohio*
2017	**Top Tier Prize**, Make OHI/O	*Columbus, Ohio*
2016	**Best Javascript Implementation**, Hack OHI/O	*Columbus, Ohio*
2015	**3rd Place Round Robin Competition**, Honors Engineering Robotics Competition	*Columbus, Ohio*

Skills

Programming Languages	Python, Java (expert); Javascript, Ruby, C, C++ (intermediate); Go (limited project experience)
Frameworks	Android, Ruby on Rails (intermediate); Spark, Kafka, Elasticsearch, SQLite (limited project experience)
(Human) Languages	English, Spanish (native); French, Italian (conversational level)

Projects

Albert: The Euchre AI	Evaluate Monte Carlo tree search on a non-deterministic, imperfect information card game.
Velodroid	A smart lit bike. A bike that has brake lights, turn signals, and turn by turn navigation for safer city riding.
Rise and Shine	Android application to log screen wakes. Track your phone usage systemtically in order to decrease technology dependence.