

# Matías Grioni

SOFTWARE ENGINEER · FOCUSED ON ML & NLP

Seattle, WA

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## Education

### The Ohio State University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Minors in Mathematics and Linguistics
- GPA: 3.985

Columbus, Ohio

August 2014 - May 2018

## Work Experience

### Microsoft

SOFTWARE ENGINEER

Seattle, Washington

June 2018 - Present

- Software engineer for Hardware Lab Kit, a test harness for the Windows device ecosystem enabling device and driver certification and bring up.
- Simplified end user experience for test authors and customers through simplified test authoring and C# and Powershell tools.
- Improved devops processes through creation of test monitoring and reporting tool, automated log mining, and a 30% improvement in installation time.
- Use of Kusto and telemetry to understand and improve test behavior, reliability and run times. Identified build service with reliability issues responsible for 8% of failures and identified alternatives and increased robustness of dependency.
- Brought in a fresh perspective advocating for more CI tools, separation of internal tools from central Windows build, and functional coding techniques.

### Quid, Inc.

SOFTWARE ENGINEER INTERN

San Francisco, California

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

UNDERGRADUATE RESEARCHER UNDER MARIE-CATHERINE DE MARNEFFE

Columbus, Ohio

September 2016 - May 2018

- 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.

### Taivara

WEB DEVELOPER

Columbus, Ohio

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.

## Projects

### pyconll

A minimal, all Python library to interface with CoNLL-U files, used for dependency treebanks and in linguistic research.

### Albert: The Euchre AI

Evaluation of Monte Carlo tree search on a non-deterministic, imperfect information card game.

### jiloj

Microservices combining topic classification, Spaced Repetition, and trivia for an optimized Jeopardy! training regimen.

## Awards

2017 **Top Tier Finisher**, Make OHI/O

Columbus, Ohio

2016 **Best Software Hack**, Hack OHI/O

Columbus, Ohio

2015 **Best Javascript Solution**, Hack OHI/O

Columbus, Ohio

2015 **3rd Place - Round Robin Competition**, Honors Engineering Robotics Competition

Columbus, Ohio

## Skills

**Programming Languages** C#, Python, Java (advanced); Javascript, Ruby, C, C++ (intermediate); Go, Scala (project experience)

**Technologies** .NET, SQL, Android, Ruby on Rails (intermediate); Spark, Kafka, Elasticsearch (project experience)

**Human Languages** English, Spanish (native); French, Italian, Esperanto (conversational)