

# Miguel Velez

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*Ph.D. Student in Software Engineering*

## Education

- 2016 - Present **Doctor of Philosophy in Software Engineering**, Carnegie Mellon University, Pittsburgh, PA, USA  
Thesis Topic: White-Box Performance Analysis of Configurable Systems
- 2016 - 2020 **Master of Software Engineering**, Carnegie Mellon University, Pittsburgh, PA, USA
- 2010 - 2015 **Bachelor of Arts in Computer Science (Physics minor)**, University of St. Thomas, St. Paul, MN, USA  
Summa Cum Laude. Major and Minor GPA: 4.00/4.00. Cumulative GPA: 3.99/4.00

## Industry Experience

### Full-time

- 2016 **Application Developer/Software Engineer**, Sportradar US, Minneapolis, MN, USA  
Developed a Ruby ETL application that provided data for the NFL Radar360 research tool

### Internships

- Summer 2020 **Software Engineering Intern**, Google, Remote, USA  
Collected and surfaced metrics corresponding to RPC behavior during integration tests
- Summer 2019 **Software Engineering Intern**, Google, Sunnyvale, CA, USA  
Designed and implemented a data federation GraphQL layer in CDAP/Cloud Data Fusion
- Summer 2018 **Software Engineering Intern**, Google, Mountain View, CA, USA  
Improved Suggest's ranking of contact actions in the Android Google Search App
- Fall 2015 **Application Developer/Software Engineer**, Sportradar US, Minneapolis, MN, USA  
Built a Ruby monitoring application to parse and build Formula 1 feeds
- Spring 2015 **Jr. Application Developer**, SportsData/Sportradar US, Minneapolis, MN, USA  
Implemented a Ruby application to parse and build MLB feeds
- 2013 - 2014 **Cloud Developer Intern**, Valtira, Minneapolis, MN, USA  
Developed web applications with Java servlets, AngularJS, and MySQL databases

## Research Experience

- 2016 - Present **Graduate Research Assistant**, Carnegie Mellon University, Pittsburgh, PA, USA
- Spring 2019 **Teaching Assistant - Analysis of Software Artifacts (Graduate course)**, Carnegie Mellon University, Pittsburgh, PA, USA
- Fall 2018 **Teaching Assistant - Foundations of Software Engineering (Undergraduate course)**, Carnegie Mellon University, Pittsburgh, PA, USA
- Summer 2015 **Research Intern**, Massachusetts Institute of Technology, Cambridge, MA, USA
- 2014 - 2015 **Undergraduate Student Researcher**, University of St. Thomas, St. Paul, MN, USA