

Miguel Velez

Ph.D. Student in Software Engineering

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in [miguelvelezmj25](#)

Education

- 2016 - Present **Ph.D. Software Engineering**, *Carnegie Mellon University*, Pittsburgh, PA, USA.
Advisor: Christian Kästner. Thesis Topic: White-Box Analysis of Configurable Systems.
- 2010 - 2015 **B.A. 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.
Advisor: Patrick Jarvis. Summa Cum Laude paper: "Current and Future Relationships Between Robots and Humans".

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, PA, 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.