

# Emmanuel Suárez Acevedo

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## Research Interests

Programming languages, type systems, formal verification, functional programming, computer science education

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## Education

**University of Pennsylvania School of Engineering and Applied Science**

**Philadelphia, PA**

*Candidate for an MSE in Computer and Information Science*

*May 2024*

**University of Pennsylvania School of Engineering and Applied Science**

**Philadelphia, PA**

*BSE with Honors in Computer and Information Science*

*May 2019*

**Courses:** Advanced Topics in Programming Languages, Computer Aided Verification, Compilers and Interpreters, Operating Systems, Computer Graphics, Software Foundations, Analysis of Algorithms, Computer Architecture

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## Experience

**Senior Software Engineer**

**San Francisco, CA**

Strava

*August 2019 – July 2022*

- \* Designed a new core system to model different types of activities
- \* Mentored junior engineers in microservice architecture and Scala programming
- \* Used Apache Spark to build a geospatial data export tool for Strava Metro customers
- \* Built tools to verify and ensure correctness of internal route data
- \* Developed a Scala microservice to serve all static maps in product

**Undergraduate Researcher**

**Philadelphia, PA**

University of Pennsylvania

*January 2017 – May 2017*

- \* Worked on a proposal for an extension to the Glasgow Haskell Compiler which would allow binding existential type variables to data constructors in patterns, advised by Prof. Stephanie Weirich
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## Teaching

**Teaching Assistant**

**Heights Philadelphia**

Introduction to Computer Science

*July 2023 – August 2023*

- \* Introduce computer science to middle school students from underrepresented backgrounds in STEM using various in-class exercises

**Teaching Assistant**

**University of Pennsylvania**

CIS 5520: Advanced Programming

*August 2022 – December 2022*

- \* Assist with in-class discussion and cooperative exercises centered around functional programming patterns in the Haskell programming language
- \* Advise student groups on a final project of their choosing in Haskell showcasing the material covered over the course of the semester

**Head Teaching Assistant**

**University of Pennsylvania**

CIS 120: Programming Languages & Techniques I

*August 2016 – May 2019*

- \* Co-lead and prepare a weekly recitation to review course material on core programming languages and techniques, taught in OCaml and then Java
  - \* Hire and train new teaching assistants
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## Skills

**Languages:** Agda, Haskell, Scala, OCaml, Java, Coq, Ruby, C/C++, Rust, Swift

**General:** Git, Rails, Apache Spark, Cassandra, MySQL, iOS,  $\text{\LaTeX}$ , React, Fluent in Spanish

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## Diversity, Equity, and Inclusion

### Anti-racism Lead

Tech Brand and Diversity Group, Strava

- \* Meet biweekly with a small group in the technology organization to discuss initiatives that could be taken both at large and within the technology organization itself to support diversity, equity, and inclusion, with a focus on anti-racism

**San Francisco, CA**

*September 2020 – June 2022*

### Director of Finance

The Percentage Project, Inc.

- \* Kickstarted financial and accounting systems for nonprofit organization dedicated to helping every person of every background embrace their diversity and feel a sense of belonging in the field that they pursue

**San Francisco, CA**

*November 2019 – June 2020*

### CIS Diversity Summit Organizer

University of Pennsylvania

- \* Collaborate in organizing a summit bringing together all members of the computer and information science community to determine how to work together to create a more diverse, inclusive, and supportive environment

**Philadelphia, PA**

*Aug 2018 – May 2019*

### VP of Finance

Society of Hispanic Professional Engineers, University of Pennsylvania Chapter

- \* Fundraise and organize bringing student members to the SHPE National conference

**Philadelphia, PA**

*May 2016 – May 2019*

### Chapter Founder and Vice President

Society of Hispanic Professional Engineers Jr., Dorado Academy Chapter

- \* Founded and organized a SHPE Jr. chapter, promoting Puerto Rican representation and excellence in STEM

**Dorado, Puerto Rico**

*May 2013 – May 2015*

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