

Emmanuel Suárez Acevedo

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Research Interests

Programming languages and their design, type systems, functional programming, strongly typed programming languages, computer science education

Education

University of Pennsylvania School of Engineering and Applied Science <i>Candidate for an MSE in Computer and Information Science</i>	Philadelphia, PA <i>May 2024</i>
University of Pennsylvania School of Engineering and Applied Science <i>BSE with Honors in Computer and Information Science</i>	Philadelphia, PA <i>May 2019</i>
Courses: Compilers and Interpreters, Operating Systems, Computer Graphics, Software Foundations, Analysis of Algorithms, Software Design / Engineering, Computer Organization and Design, Computer Architecture	

Experience

Graduate Researcher University of Pennsylvania	Philadelphia, PA <i>August 2022 – Present</i>
Senior Software Engineer Strava <ul style="list-style-type: none">* 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	San Francisco, CA <i>August 2019 – July 2022</i>
Software Engineering Intern, iOS Strava	San Francisco, CA <i>June 2018 – August 2018</i>
Undergraduate Researcher University of Pennsylvania <ul style="list-style-type: none">* 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	Philadelphia, PA <i>January 2017 – May 2017</i>

Teaching

Teaching Assistant CIS 5520: Advanced Programming <ul style="list-style-type: none">* Assist with in-class discussion and cooperative exercises centered around functional programming patterns in the Haskell programming language	University of Pennsylvania <i>August 2022 – Present</i>
Head Teaching Assistant CIS 120: Programming Languages & Techniques I <ul style="list-style-type: none">* 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	University of Pennsylvania <i>August 2016 – May 2019</i>

Skills

Languages: Scala, Haskell, OCaml, Java, Ruby, C/C++, Rust, Swift
General: Git, Rails, Apache Spark, Cassandra, MySQL, iOS, \LaTeX , React, Fluent in Spanish

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
