

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
Candidate for an MSE in Computer and Information Science

Philadelphia, PA
December 2023

University of Pennsylvania School of Engineering and Applied Science
BSE with Honors in Computer and Information Science

Philadelphia, PA
May 2019

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
August 2022 – Present

Senior Software Engineer
Strava

San Francisco, CA
August 2019 – July 2022

- * Designed and developed new core system to model different types of activities
- * Mentored junior engineers in microservice architecture and Scala programming
- * Developed a Scala microservice to serve all static maps in product
- * 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

Software Engineering Intern, iOS
Strava

San Francisco, CA
June 2018 – August 2018

Undergraduate Researcher
University of Pennsylvania

Philadelphia, PA
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
CIS 5520: Advanced Programming

University of Pennsylvania
August 2022 – Present

- * Assist with in-class discussion and cooperative exercises centered around functional programming patterns in the Haskell programming language

Head Teaching Assistant
CIS 120: Programming Languages & Techniques I

Philadelphia, PA
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: Scala, Java, OCaml, Haskell, Ruby, C, Rust, Swift

General: Git, Rails, Apache Spark, Cassandra, MySQL, iOS, Unity, Linux, \LaTeX , Agile, 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

San Francisco, CA

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 in high school, promoting Puerto Rican representation and excellence in STEM

Dorado, Puerto Rico

May 2013 – May 2015
