

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 **Philadelphia, PA**
Candidate for an MSE in Computer and Information Science *May 2023*

University of Pennsylvania School of Engineering and Applied Science **Philadelphia, PA**
BSE with Honors in Computer and Information Science *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 **Philadelphia, PA**
University of Pennsylvania *August 2022 – Present*

Senior Software Engineer **San Francisco, CA**
Strava *August 2019 – July 2022*

- * Designed and developed new core system to model different types of activities
- * Mentored junior engineers in microservice architecture and the Scala programming languages
- * 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 **San Francisco, CA**
Strava *June 2018 – August 2018*

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 Dr. Stephanie Weirich

Teaching

Teaching Assistant **University of Pennsylvania**
CIS 5520: Advanced Programming *August 2022 – Present*

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

Head Teaching Assistant **Philadelphia, PA**
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

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

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
