Emmanuel Suárez Acevedo

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Education

University of Pennsylvania School of Engineering and Applied Science **Philadelphia, PA**
BSE in Computer and Information Science, Minor in Mathematics *May 2019*
Courses: Compilers and Interpreters, Operating Systems, Computer Graphics, Software Foundations, Analysis of Algorithms, Software Design / Engineering, Computer Organization and Design, Computer Architecture
Activities: Society of Hispanic and Professional Engineers (SHPE) Vice President of Finance

Experience

Software Engineering Intern, iOS **San Francisco, CA**
Strava *June 2018 – August 2018*

* Worked on the company wide rebranding of Strava Premium to Strava Summit
* Modularized related code into an easy-to-use framework
* Identified and fixed critical bugs in a timely manner

Head Teaching Assistant **Philadelphia, PA**
CIS 120: Programming Languages & Techniques I *August 2016 – Present*

* Hire and train new teaching assistants
* Co-lead and prepare a weekly recitation

Projects

Quaker OAT Compiler
A complete compiler written in OCaml from a high-level, type safe imperative language (OAT) to LLVM and from LLVM to x86

Time2Assemble
An iOS app written in Swift for finding a time for a group to assemble, featuring a dashboard allowing the user to create an event and invite other users to fill out their availability to determine a final meetinng time

PennOS
A Unix-based operating system written in C, featuring a scheduler for running threads, a flat file system, and user shell interactions

HaXtal
A web / GUI application written in Haskell that generates fractals defined using L-Systems, includes a random L-System generator for defining random fractals

Penn Hernia Risk Calculator
A survey app written in Swift that uses research data to determine a patient's risk of getting a postoperative hernia

Research

Binding existential type variables in Haskell
An extension for the Glasgow Haskell Compiler (GHC) that allows users to bind existential variables to data constructors in patterns

Skills

Languages: Java, OCaml, Swift, Python, Haskell, C, C++, Rust, Objective-C, Javascript, Coq
General: Git, iOS, Linux, LaTeX, Android, OpenGL, Subversion, Firebase, Agile, Arduino, React, Fluent in Spanish