Stefano Yushinski

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Education

Aug. 2017– May 2021 **B.S.E in Computer and Information Science**, *University of Pennsylvania*, Philadelphia, *GPA: 3.13, Major: 3.27.*

Courses Intro to Computer Systems, Automata Computability & Complexity, Data Structures and Algorithms, Operating Systems, Intro to Cryptography and Networks, Software Design & Engineering, Data Analytics in R, Intro to Algorithms, Computer Organization and Design, Product Design, Hardware and Software Co-Design for Machine Learning Performance, Database & Info Systems

Experience

Vocational

Summer 2020 **Software Engineer Intern**, *Quickbooks Integration & Automation*, Intuit, Mountain View, CA.
Worked on improving Quickbooks automation through integrating models into the frontend codebase, as well as improving UX and quickfixing bugs.

Fall 2018 & Fall 2019 **Teaching Assistant**, *Intro to Computing Systems*, University of Pennsylvania.
Provided office hours for students to help them grasp theoretical ideas behind the computer system from transistors to assembly language to C and maintaining the stack and heap memory.

July 2019– Sept. 2019 **Research Assistant**, *University of Pennsylvania*.
Tested the performance of different models, including CORELS, sklearn-expertsys, DTExtract, and various blackbox models on a number of public datasets.

May 2019– July 2019 **Engineering Research Intern**, *National University of Singapore*, Singapore.
Researched machine learning models and their accuracy for localizing sensor nodes in an indoor wireless sensor network for a mobile life sign monitor medical device. More about the research project, **Localization of Sensor Nodes**, is mentioned below.

June 2018– Sept. 2018 **Front End App Developer Intern**, *Teamtrics*, Philadelphia.
Learned and executed conceptual front end frameworks of an Android app and single handedly developed the Front End in the native language of Java via Android Studio.

Projects

PennOS, *Operating Systems*, University of Pennsylvania.
Worked with a team to develop an operating system with a proper scheduler, file system and shell. Worked on the file systems, but also integrating the file systems with the scheduler and shell. Developed skills in cooperation with a team on an extensive project built in C as well as understandable code for the API of the file systems.

Autograder, *Intro to Computing Systems*, University of Pennsylvania.
Worked with a team of developers in Python on the autograding software for programming assignments done in C that will be used and updated for years to come.

Compiler, *Intro to Computing Systems*, University of Pennsylvania.
A Compiler written in C, that takes a stack based programming language called J, and compiles it into Assembly for the LC4

Penn-Shell, *Operating Systems*, University of Pennsylvania.
Worked with a partner to create a shell similar to bash written in C using various system calls to implement job handling, foreground and background processes, multi-stage pipelining, and redirection

Kinitro, *Software Design & Engineering*, University of Pennsylvania.
Worked with a group to full-stack develop a mobile app for Android using Android Studio for frontend and Node.js as our backend. Later on translated the front end to build it on React Native for interest of learning.

Localization of Sensor Nodes, *Mobile Life Signs Monitor*, National University of Singapore.
Collected data and curated it to train multiple models to test the performance of Neural Networks, SVMs, and Multiple Linear Regression using sklearn-expertsys and TensorFlow in python to localize sensor nodes within an indoor low energy bluetooth sensor network.