

Amir Shahatit

TA, SWE, Researcher



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About me

I am a rising Senior studying Computer Science at Berkeley. My passions include teaching, computer science, and mathematics.

Skills

Python

Spanish

Rust

GO

Java

DevOps: Jenkins, Docker, Mesos, k8s

Arabic

Extra-Curricular

Recruitment Director @ MENA-RRC
Hosted 35 freshman admits of the MENA (Middle East North Africa) community for a weekend introduction to campus life.

Developer @ Engineering Solutions
Collaborated with DroneDeploy to enhance object detection for drone footage.

Curriculum Developer @ IntellyTutor
Wrote 50 pages of podcast curriculum for AP United States History, focusing on 1800-1844.

Education

2016-2020 Computer Science

UC Berkeley

Security, Linear Algebra, Algorithms, OS, Compilers, AI, Graphics

Software Engineering

Summer '18 SWE Intern @ Voleon

Berkeley, California

Used Python and GO to improve the alert system, user interface and base capabilities of a job scheduler.

Used Jenkins, Make, and Bash to set up a repository that deploys hot fixes on merges to master.

Summer '17 SWE Intern @ Intuit

San Diego, California

Created an API that tests the viability of downstream dependencies.

Collaborated on a service that delegates a customer's tax return to a tax professional.

Research

Su'19-Fa'19 Netsys Lab: Edge Computing

Scott Shenker, Yotam Harchol, Aisha Mushtaq

Optimal state placement: Edge Computing (Paper under submission)
Modeled RPC requests to shared data in an edge computing setting to determine which set of edge nodes should replicate an object in order to optimize performance.

Spring '19

Netsys Lab: Kraken

Scott Shenker, Ed Oakes

Wrote a configurable simulator for a peer2peer file distribution system for Docker container image deployment as well as extremely large files (i.e., 100s of GB).

Spring '19

Retina Lab : PystimMod

Rowland Taylor, Theresa Puthussery

Optimized the image stimulus program the lab uses to measure the retina's response to different stimuli.

Teaching

Fa'19

Head Undergraduate Student Instructor

Computing for Data Scientists

With Michael Ball, I organize course logistics and curriculum development for the 300-student class, teach a lab section of 30 students, manage a 12-person TA team and 30 tutors/lab assistants.

Fa'18 - Sp'19 Undergraduate Student Instructor

Computing for Data Scientists

With Gerald Friedland, I upgraded our second project, coordinated curriculum development, and contributed exam questions.

With David Culler, I taught a lab section, created a new lab, and hosted office hours.

Fa'17 - Sp'18 Undergraduate Student Instructor / Tutor

Foundations of Data Science

With Ani Adhikari, I taught a lab section, hosted office hours and created a video walkthrough.

With John Denero and David Wagner, I tutored a group of 5 students, and graded assignments.