Amir Shahatit

Software Engineer

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About me

I am a Software Engineer at The Voleon Group who is passionate about education, technical challenges, and tacos.

Skills

- Python
- Spanish
- Rust
- GO
- Java
- DevOps: Docker, Mesos, Airflow, k8s
- Arabic
- Japanese

Extra-Curricular

Social Director @Voleon
Planned monthly socials for my team! Highlights include: a social where we all learned how to play Mary had a little lamb on assorted musical instruments, a remote picnic, and game nights drawing the envy of other teams.

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

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

Education

2016-2020 Computer Science — UC Berkeley
Courses: Security, Algorithms, OS, Compilers, AI, ML, Graphics, LinAlg

2020 Study Abroad — Pontificia Universidad Catolica de Chile
Philosophy and Computer Science Courses taught entirely in Spanish

Software Engineering

2020 - Now Software Engineer @ Voleon — Berkeley, California
Implemented support for new instrument classes resulting in approx. 10k/day PNL improvement over baseline in simulation.

Collaborated with researchers to create and refine analytic values modeling financial qualities of different instruments

Upgraded our codebase to a new version of pandas and added robust testing to preserve of important calculations.

Summer '18 SWE Intern @ Voleon — Berkeley, California
Improved alerting, UI and efficiency for an in-house job scheduler. Open-sourced improvements linking Airflow to Apache Mesos. Setup a pipeline to deploy hot fixes to master.

Summer '17 SWE Intern @ Intuit — San Diego, California
Created an API that tests the viability of downstream dependencies. Collaborated on delegation of tax returns to tax professionals.

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 where to replicate each object for optimal performance.

Spring '19 Netsys Lab: Kraken — Scott Shenker, Ed Oakes
Wrote a simulator for a peer2peer file distribution system for files over 100 GB, specifically Docker container image deployments

Spring '19 Retina Lab : PystimMod — Rowland Taylor, Theresa Puthussery
Optimized a program measuring retinal responses to stimuli.

Teaching

Fa'19 Head Undergraduate Student Instructor — Computing for Data Scientists
Organized course logistics and curriculum development for the 300-student class, taught a lab section of 30 students, managed a 12-person TA team and 30 tutors/lab assistants.

Fa'17 - Sp'19 Undergraduate Student Instructor / Tutor — Intro data and computer science
Created labs, homework assignments, and video walkthroughs, restructured projects, mentored other course staff and taught sections ranging from 5-30 students. Worked under John Denero, David Wagner, Ani Adhikari, David Culler, and Gerald Friedland