Amir Shahatit

Software Engineer
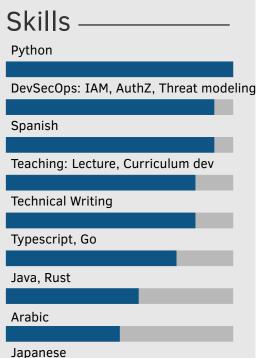
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About me

I am a Software Engineer at Zip. I'm passionate about travelling, learning new languages, education, cybersecurity, and tacos.

Skills

Python

DevSecOps: IAM, AuthZ, Threat modeling

Spanish

Teaching: Lecture, Curriculum dev

Technical Writing

Typescript, Go

Java, Rust

Arabic

Japanese

Extra-Curricular

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.

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.

Education

2022-2024	MS: Cybersecurity	NYU Tandon

Courses: InfoSec Management, Mobile Security, Network Security, Databases, Infosec and Privacy

2016-2020	BA: 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

2022 - Now	Software Engineer (Security) @ Zip	San Francisco, CA

Restricted internal admin access with minimal friction. Automatically provisioned access for employees based on job function.
Productized SSO setup and security recommendations leading to over 95% of users signing in exclusively with SSO.
Coordinated the migration and rotation of all source code secrets into AWS SM. Brought folks together across every eng team at Zip.
Created a developer security and security awareness program.

2022	Software Engineer (Security) @ Brex	Remote

Automated the process for onboarding customers to SSO with SAML and OIDC saving roughly 5 hours of engineering time per week.
Created an interface for checking access to resources within our centralized authorization server

2020 - 2021	Software Engineer @ Voleon	Berkeley, California

Created an automated system for simulating how previous deployments would perform if they were still in production.
Implemented support for new instrument classes resulting in significant PNL improvement over baseline in simulation.
Open-sourced improvements linking Airflow to Apache Mesos.

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'18 - Sp'19	Undergraduate Student Instructor	Computing for Data Scientists

With Gerald Friedland, I revamped our project to include a guided debugging exercise, coordinated curriculum development, and contributed exam questions. With David Culler, I taught a lab section, created a lab on python trees using family trees as an example.

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.

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: P2P-powered Docker experiments	Scott Shenker, Ed Oakes

Wrote a simulator for a peer2peer file distribution system for files over 100 GB, specifically Docker container image deployments