

# Shayan Sadigh

**Location:** California, U.S. (I'm not attached to any particular location)  
**Email:** [ssadigh.contact@gmail.com](mailto:ssadigh.contact@gmail.com)  
**Github:** <https://github.com/shayanpersonal> (200+ stars)  
**Work Status:** U.S. Citizen

## Summary

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- Founding Engineer, Agentic AI @Aurascape.ai | Previously @Amazon SageMaker
- Placed top-10 in \$1.5 million Kaggle competition. Designed and trained 200 million parameter MVCNN-Attention neural network for threat recognition on 3D body scans. ([Slides](#))
- Authored "checkered subsampling" deep learning research paper and published PyTorch code. ([arXiv](#))

## Work Experience

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### Aurascape.ai

Founding Engineer, Agentic AI (Feb. 2024 - Sept. 2025)

- Built and presented demos which helped secure \$12.8 million funding.
- Developed agentic web traffic analyzer for generating firewall signatures, multimodal content classifiers for content filtering, and prototyped agentic web browser for web crawling.
- Leveraged OpenAI, Claude, Gemini, and in-house vLLM deployment. Built pipelines on FastAPI, Flask, MongoDB, Playwright, and deployed Docker containers to Google Cloud, AWS, Azure.

### Santa Barbara City College

Adjunct Lecturer (Aug. 2023 - Dec. 2023)

- Taught in-person full semester course on Python, machine learning, and deep learning. Labs included a "small language model" neural network trained with PyTorch on tiny-shakespeare dataset.
- Incorporated MoeBot, my previously built agentic AI, as an AI teaching assistant.
- Quote from department chair: "The student evaluation ratings are the best I've ever seen out of the 12 years of evaluations packets I've signed off on."

### Moebot.ai

Technical Founder (2021-2023)

- Built MoeBot, a Discord AI agent powered by a swappable LLM backend. Incorporates a custom form of persistent agent memory, tool calling, Stripe payments. Containerized and deployed to Google Cloud.
- Built various software projects such as MIDI recording tools and VST audio plugins in C, Python.

### Amazon Web Services

Deep Learning Software Engineer II (Mar. 2020 - Dec. 2020)

- Contributed to Amazon SageMaker's internal PyTorch and XGBoost repositories in Python and C++.
- Resolved customer issues and integrated Apache TVM deep learning compiler.

### Palo Alto Networks

Senior Software Engineer (Oct. 2019 - Mar. 2020)

Software Engineer (Sep. 2018 - Sep. 2019)

- Awards: Project of the Quarter - Machine Learning Antivirus
- Proposed and implemented new stack-based pattern matching algorithm in C which improved threat coverage in PAN-OS firewall, resulting in higher scores on 3rd-party benchmarks.

- Solved many long-standing customer tickets and feature requests from data science, product managers, and threat research. Quote from VP of Engineering: "One-man army."
- Made major contributions to industry-first machine learning features - integrated inline machine learning models into resource-constrained firewall in C.
- Prepared and presented slides explaining the pattern matching system in the threat detection codebase. The presentation recording is now used to train new hires and cross-functional teams working with threat detection code.
- Participated in data center maintenance and troubleshooting. Brought up and debugged rack-mounted ESXi servers and firewall appliances. Configured VLANs, routing, IP addressing.
- Brought up and helped train two junior engineers.

## Patents

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- [US-20250363235-A1](#) *Multimodal fingerprinting of digital assets* (Notice of Allowance mailed)
- [US-20250363180-A1](#) *Visibility applications* (Notice of Allowance mailed)

## Projects/Publications

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- [stacked-autoencoder-pytorch](#) (100+ stars) - a popular PyTorch autoencoder influenced by Hinton's 2006 "deep belief nets" paper.
- [Checked CNN](#) (30+ stars) - a deep learning technique I proposed, checkered subsampling.
- [Passenger Screening Model](#) (20+ stars) - my top-10 solution to a \$1.5 million Kaggle challenge.
- [GauchoMap Chrome Extension](#) - 200+ users when I was maintaining it (2016).

## Education

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- 5-year accelerated B.S. + M.S. program @ University of California, Santa Barbara
- Master of Computer Science (2017 - 2018)
- Bachelor of Computer Science (2013 - 2017)

## Miscellaneous

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- 2nd-degree black belt in Taekwondo.
- I write and upload piano compositions to YouTube.
- Languages: English (native), Farsi (native, but very rusty)