Shayan Sadigh

https://shayanpersonal.github.io | ssadigh@ucsb.edu
Deep Learning | Computer Networks | Security

EDUCATION

UC SANTA BARBARA

MS IN COMPUTER SCIENCE
June 2018 | Santa Barbara, CA
Cum. GPA: 3.8 / 4.0

BS IN COMPUTER SCIENCE
June 2017 | Santa Barbara, CA
College of Engineering
Dean's Honors (7×)
Upper GPA: 3.9 / 4.0

LINKS

Github:// **shayanpersonal**
LinkedIn:// **shayan-sadigh**

COURSEWORK

GRADUATE
Deep Learning
Parallel Programming
Information Theory
Scalable Web Applications
Computational Geometry
Cryptography
Knowledge Bases
Mobile Computing

UNDERGRADUATE
Artificial Intelligence
Computer Networks
Computer Vision
Data Structures and Algorithms
Databases
Distributed Systems
Operating Systems
Security
Theory of Computation + others

ONLINE
UCL's Reinforcement Learning
Stanford's CNNs for Vision
EPFL's Neuronal Dynamics

SKILLS

PROGRAMMING
Over 10,000 lines:
Python • C
Over 1,000 lines:
C++ • JavaScript
Familiar:
Java • Android • SQL • x86 • C#
Ruby • MATLAB • CUDA • HTML

RESEARCH

UCSB MIRAGE LAB | GRADUATE DEEP LEARNING RESEARCHER
Jan 2018 – June 2018 | Santa Barbara, CA
arXiv:1805.10766   Proposed, developed, and researched Multisampling and Checkered Subsampling, a class of new techniques for improving the spatial capacity of feature maps in neural networks. Significantly improves accuracy of all CNNs in image classification. Submitted to NIPS 2018 under the advice of Pradeep Sen.

KAGGLE | TOP 10 IN $1.5 MILLION COMPETITION
Sep 2017 – Dec 2017
Developed LSTM / CNN / Attention model for threat detection on 3D millimeter wavescans for $1.5 Million Passenger Screening Algorithm Challenge sponsored by the Department of Homeland Security. Won 10th place and gold medal, presented findings to UCSB Four Eyes Lab. Of top 10, wrote the most efficient solution.

EXPERIENCE

PALO ALTO NETWORKS | STAFF SOFTWARE ENGINEER
Aug 2018 - Present | Santa Clara, CA
L7 security team.

UCSB | TEACHING ASSISTANT
March 2018 - June 2018 | Santa Barbara, CA
Graduate teaching assistant for CS176A: Intro to Computer Networks.

PALO ALTO NETWORKS | SOFTWARE ENGINEERING INTERN
June 2017 - Sep 2017 | Santa Clara, CA
Developed software in Python and C to process PCAPNG packet captures for PAN Next-Generation Firewalls.

THERMO FISHER SCIENTIFIC | SOFTWARE ENGINEERING INTERN
Nov 2016 – Jan 2017 | Santa Barbara, CA
Developed new software in C# for Hyperion Scanning Probe Microscopes.

UCSB | LEAD WEB DEVELOPER
Sep 2015 – June 2016 | Santa Barbara, CA
Planned, developed, and maintained website for new UCSB research department.

ACTIVITIES

2016 - Present	Various deep learning projects, uploaded to Github.
2015 - 2018	Leader of Dance Dance Revolution club at UCSB.
2018	Deep learning for NLP paper reading group.
2018	Network science paper reading group.
2017	Member of UCSB Hacking Club.
2016	Developed and published GauchoMap (300+ users).
2016	Discovered and reported major web exploits on Piazza.com.

AWARDS / OTHER

Top 858 / 25289 in Google Code Jam, Qualification Round
Recipient of merit-based Glenn-Culler Scholarship.
2nd-degree black belt (8+ years experience) in Korean martial art Soo Bahk Do.
Youtube channels with 4,000+ subscribers and over 1 million video views.
Highly experienced pianist (15+ years) with four public performances.
Plays Dance Dance Revolution at a professional level.