

Soroush Nasiriany

🌐 snasiriany.me

✉ snasiriany@berkeley.edu

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EDUCATION

UC Berkeley

BA in Computer Science | 2015-2019
GPA: 3.97

Homestead High School

Cupertino, CA
GPA: 4.0 | Valedictorian

COURSEWORK

CS 61A	Python Programming
CS 47B	Data Structures
CS 61C	Computer Architecture
CS 70	Discrete Mathematics
CS 162	Operating Systems
CS 170	Algorithms
CS 188	Artificial Intelligence
CS 189	Machine Learning
CS 294-112	Deep Reinforcement Learning
Math 54	Linear Algebra & Differential Equations
Math 53	Multivariate Calculus
Math 110	Linear Algebra
Math 104	Real Analysis
EE 126	Probability Theory
EE 127	Convex Optimization
EE 221A	Linear System Theory
EE 227C	Convex Optimization Algorithms

TECHNICAL SKILLS

Languages

Python, Java, C/C++

Web

HTML, CSS, SQL

Frameworks

Tensorflow, ROS, Docker

AWARDS

USA Computing Olympiad Gold Division

EXPERIENCE

Undergraduate Researcher, Berkeley AI Research Lab | Sept 2016–

- Combining Model Based and Model Free Reinforcement learning in robotics, adv. by Prof. Sergey Levine

CS 294-112 Reader | Fa 2018

- Reader for Deep Reinforcement Learning, taught by Sergey Levine

CS 189 Undergraduate Student Instructor | Sp 2017, Fa 2017, Sp 2018

- Taught Machine Learning topics (Classification, Regression, Neural Networks, Decision Trees, PCA) to 500+ students
- Held discussion sections, office hours, project parties, and created exams
- Managed academic interns, guerrilla sessions
- Created official course notes: [A Comprehensive Guide to Machine Learning](#)

Software Engineering Intern, Facebook | May-Aug 2017

- Maintained and added features to the internal Apache Zookeeper project

Undergraduate Researcher, UC Berkeley Cell Biomechanics Lab | 2015-2016

- Applied automata theory and machine learning techniques to bioengineering domain, adv. by Prof. M. Mofrad
- Developed visual DNA sequence modeling with pattern matching and compression functionality
- Applied machine learning to classify mental state of users of health forum

Organizer, Teen Hackathon | 2014-2015

- Organized large-scale hackathon at Paypal headquarters; sponsors, including Google, Dropbox, Pebble

PUBLICATIONS

Text Analysis and Automatic Triage of Posts in Mental Health Forum

Association for Computational Linguistics (ACL) journal

- Used random forest classifier to predict the mental state of users in the ReachOut.com mental health forum
- Used standard cross-validation techniques and scikit-learn Python library; achieved accuracy rate of 80 %