

# Mostafa Rohaninejad

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## EDUCATION

### University of California, Berkeley – College of Engineering

M.S. Electrical Engineering and Computer Science

Aug 2017 - Present

B.S. Electrical Engineering and Computer Science, *Highest Honors*, Cumulative GPA: 3.96

Aug 2014 – May 2017

**Awards:** Regents' and Chancellor's Scholar, Foroutan Scholar

**SAT:** 2370/2400 - 800 (Math) 770 (Reading) 800 (Writing) **GRE:** 339/340 – 169 (Math) 170 (Reading)

#### Notable Coursework

**Major:** Discrete Mathematics and Probability Theory, Artificial Intelligence, Machine Learning, Probability and Random Processes, Algorithms and Intractable Problems, Statistical Learning Theory, Designing Deep Neural Networks, Operating Systems, Neurobiology of Decision Making, Optimization Models, Combinatorial Algorithms and Data Structures, Deep Reinforcement Learning, Information Theory and Coding, Introduction to Analysis

**Non-major:** Advanced Persian, Rhetoric

## PROFESSIONAL EXPERIENCE

### Facebook

May 2017 – Aug 2017

#### Software Engineering Intern

Menlo Park, CA

- Developed a new service that is an endpoint for an essential API that allows teams on Facebook to monitor the state of their jobs.
- This new architecture halved the API's latency and maintains availability even when other critical components are down.
- The service will allow FB's deployment system to scale rapidly, a necessity given the millions of new containerized jobs a year

### Bloomberg

May 2016 – Aug 2016

#### Software Engineering Intern

New York, NY

- As part of the Online Learning Team, I focused predominantly on the HELP function that boosts search and discoverability within the Bloomberg Terminal
- Developed a system for training and implementing Structured, Contextual Multi-armed Bandits that is now being used to place "special answers" within the list of results returned for a given query. This is a critical service that will run every time the HELP function is called

### Intuit

Jun 2015 – Aug 2015

#### Software Engineering Intern

San Diego, CA

- Helped to engineer a Decision Engine that would personalize users experience on TurboTax alongside the Data Platforming Team
- Crafted a command line tool for data scientists to better organize their models and make them Decision Engine compatible
- Led a 5 member intern team which won 1<sup>st</sup> place at an internal Intuit Lean StartIn Hackathon

## RESEARCH

### Robot Learning Lab

Sept 2016 – Present

#### Researcher

Berkeley, CA

- Working under Professor Pieter Abbeel on deep learning approaches to ML problems in reinforcement learning and optimization
- Developing meta learning models through the lens of temporal convolutions and soft attention to attain state of the art performance on objectives such as learning to learn (where an optimization network automatically trains an optimizee network of interest) and few shot learning (network attains good performance with only a few training examples).

#### A Simple Neural Attentive Meta-Learner

Nikhil Mishra\*, Mostafa Rohaninejad\*, Xi Chen, Pieter Abbeel

(\*) denotes equal contribution

Under Review at ICLR 2018, Preliminary Version appeared at ICML 2017 *Lifelong Learning: A Reinforcement Learning Approach* Workshop

## EXTRACURRICULAR EXPERIENCE

### Student Instructor

Jan 2016 – Present

#### EE127, CS189, EE16A

Berkeley, CA

- TA for a 550 person machine learning course (CS189) 800 person introductory circuits and linear algebra course (EE16A)
- Hold office hours, and develop homeworks, discussion worksheets, and exams
- Teach discussion sections that supplement the main lecture
- Achieved a 4.5/5 teaching effectiveness rating in an anonymous, end of the year survey of students

## SKILLS & INTERESTS

**Programming Languages (in order of aptitude):** Python, C/C++, Java, SQL, Javascript, HTML/CSS, Haskell, Scala, Swift, Scheme

**Community Involvement:** Provided Pro-Bono Consulting to nonprofits in the Bay Area as part of The Berkeley Group

**Languages:** English, Farsi

**Interests:** Backpacking, Hiking, Pixar & Ghibli Films, Broadway, Politics, Reading the Economist, CrossFit