Aarash Heydari

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EDUCATION

University of California, Berkeley

Bachelor of Arts in Computer Science; GPA: 3.73

Berkeley, CA

Aug. 2015 - May 2019

Email: aheyd@berkeley.edu

EXPERIENCE

Microsoft, Azure Identity

Software Engineer Intern

Redmond, WA

May 2018 - Aug. 2018

• Online Directory Service: Used Azure Functions to automate the distributed configuration management infrastructure of a global, mission- critical LDAP service to minimize errors and save time for other engineers.

Datalogue

Montreal, Quebec

Back-end Software Engineer Intern

May 2017 - Aug. 2017

- Tools for Data Scientists: Startup building AI powered pipelines that prepare any data from any source for immediate and compliant use. Worked on data preparation problems from Fortune 500 client companies.
- Transcoders: Contributed to back-end Scala API that accepts datasets in any common format to reactively deliver massive processing power. Built transcoders for JSON, Microsoft Excel, XML, and MongoDB.

TA / Undergraduate Student Instructor

Berkeley, CA

Course Instructor for three classes over the last four semesters

Jan. 2017 - Dec. 2018

- CS170, Efficient Algorithms and Complexity Theory (Current): Lead weekly recitations teaching students algorithm strategies such as Divide and Conquer, Graphs, Dynamic Programming, Max Flow, etc.
- CS188, Artificial Intelligence (Fall '17): Teach students traditional AI techniques for various problem types such as Search, Neural Nets/Back-propagation, Reinforcement Learning, Markov Decision Processes, etc.
- CS61B, Data Structures and Algorithms (Spring '17): Guide students in the fundamental principles of data organization, complexity, sorting algorithms and software engineering in Java.

Research

Deep Learning for Biomedical Imaging

UCSF Radiology and Biomedical Imaging Department

Advised by Professor Youngho Seo

Sept. 2018 - May 2019

- Weekly literature review: Discuss research papers and fundamental concepts in machine learning.
- Breast Cancer detection: Used the ResNet architecture to predict breast density from CT Scans.
- Lung Cancer in 3D Chest CT: Localizing lung nodules, tracking change over time, and characterizing risk of cancer.

Fake News and Misinformation

UC Berkeley

Advised by Professor Gireeja Ranade

Feb. 2018 - Present

• Data Collection: Used Youtube APIs to collect and analyze data on comments in falsified media coverage. Writing a white paper to share our data collection methods and findings.

Projects

• Deep Neural Structure from Motion: Improved an existing state-of-the-art CNN architecture on the Computer Vision task of Single-View Depth Estimation in Tensorflow (tf-slim). Wrote a research paper on our findings.

Relevant Coursework

- Systems: Computer Security, Operating Systems, Internet Architecture and Protocols, Computer Architecture
- Artificial Intelligence: (* = Graduate Level) Machine Learning*, Computer Vision*, AI, Data Science, Designing/Visualizing/Understanding Neural Nets*, ML for Sequential Decision-Making under Uncertainty*

SKILLS

- Technologies: Python, Java, C, Scala, C#, Git, Unix, Tensorflow
- Other: Farsi, French, Piano, Jazz Drums, Eagle Scout