Ahmad S Chatha

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Summary Highly motivated, decisive and results-oriented individual seeking a research based position in the discipline of **computing** science.

Skills
Programming Languages: Python, Java, JavaScript, MATLAB, Sql
Frameworks: Django, Flask, Nodejs, React, D3, Numpy
Databases: Mysql, Postgresql, MongoDB, Neo4j
Infrastructure: AWS, Heroku, Firebase, Salesforce, Docker

Experience

HavenLife (MassMutual), Software Developer June 2018 - Present

- Algorithmic Underwriting
  - Automating the life insurance underwriting process.

Simons Foundation, Software Developer May 2014 - May 2018

- Project Vesta
  - Utilizes Django, Django REST Framework, and React to create a grant management system.
  - Help create a custom permissioning system that works down to a field level in Django
  - Create generic views and serializers for the API endpoints.
- Spark
  - Spark's goal is to get DNA samples form 50,000 families with Autism. Largest Genetic study of autism ever. Built the Spark's Coordinator portal to manage participant's genetic results using React. Author of the Spark Paper in Neuron.
- Sfari Base
  - A central database of phenotypic and genetic information about families affected by autism. It has a react frontend and a python backend. Responsible for maintaining and building new features.
- Sfari Gene
  - An evolving database for the autism research community that is centered on genes implicated in autism susceptibility.
  - Built the API using NodeJs and Express Framework. Deployed it on AWS Lambda.
- Sfari Beacon
  - A python app deployed through AWS lambda that answers questions of the form "Do you have information about the following mutation?" and responds with either a "yes" or a "no". The data is available in aggregate through the beacon network.

Projects

- Review of Cryptographic Hardness for Learning Intersections of Halfspaces
  - The problem of PAC learning intersections of halfspaces is at least as hard as solving lattice based cryptography problems.
- Robust Principal Component Analysis
  - RPCA based moving entity detection from a moving camera.

Education

Columbia University, New York, NY May 2016
Masters of Science in Computer Science - Machine Learning Track

New York University, New York, NY Jan 2014
Bachelors of Science in Computer Science and Mathematics