

Ahmad S Chatha

chathaahmad@gmail.com

LinkedIn: [/ahmad-chatha-7381a280/](#) Github: [/ahmadchatha](#) Website: ahmadchatha.com

Summary Highly motivated, decisive and results-oriented individual seeking a software engineering position.

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** *Simons Foundation, Software Engineer* May 2014 - Present
- [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 from 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](#).
 - Sims (Internal)
 - A python based web platform for rapid deployment of decision-support tools.
 - In charge of maintaining it and building new features as requested.
 - [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**
- [iGoPiGo](#)
 - Indoor navigation using ibeacons (low energy bluetooth devices) and neural networks.
 - <https://github.com/ahmadchatha/iGoPiGo>
 - [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