

ANDY KAMATH

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EMPLOYMENT

Software Engineer	Self-Employed	Spring 2012-Present
<ul style="list-style-type: none">Contract solutions involving data analytics or full-stack applications to various peopleWorked with rapper Hoodie Allen on optimizing CDN capacity for fast and easy downloads on a large scaleWorked with grassroots social media campaigns to build websites and gain a 200,000+ social media reach		
Deep Learning Intern	Adia Tech	Fall 2016-Winter 2016
<ul style="list-style-type: none">Assisted in developing a friendly drone service implementing SLAM and computer vision algorithms for object tracking and mapping as well as object interaction.		

EDUCATION

Boston, MA	Northeastern University	Fall 2017-Summer 2021
<ul style="list-style-type: none">B.S. Data ScienceSubject to change based on decisions and financial aid from other institutions		

TECHNICAL EXPERIENCE

Projects

- DR Sensitivity** (2017) - Implemented research done at the University of Iowa and UNM for image segmentation of the retina and utilized weighted majority classification with L-BFGS Neural Networks and Logistic Regression Classification to improve sensitivity of a retinal image scan for diabetic retinopathy to 96-97% with peak performance at 100%. Python.
- CounteractIO** (2016) - Analyzes public tweets and sends encouraging messages to people who may be at risk of harming themselves or others. Python, SVM Classification, Markov Chain Generation.
- Glass.com** (2016) - Utilizes image segmentation and deep learning to predict number of likes on Instagram and display elements of an account's most popular images. Python/Flask, Random Forest Regression.
- Jarvis-Kamath** (2016) - Small clone of Mark Zuckerberg's Jarvis system on Facebook Messenger. Node.js
- TrickleDownML** (2016) - Ronald Reagan-trained RNN chatbot on Facebook Messenger. Node.js, Python
- eduCommit** (2015) - Prototype of educational social media software. Mongo, Express, Node.js.

ADDITIONAL EXPERIENCE AND AWARDS

- NC Science and Engineering Fair Region 6 State Finalist and 2nd in Technology** (2017) - for Diabetic Retinopathy research mentioned above. Currently preparing for state fair.
- Eagle Scout Candidate** (2017) - Currently in final stages to earn Eagle Scout rank.
- United Nations Hack4Humanity 1st Place** (2016) - for implementing Counteract.io. Was trending on Github after release. Got the opportunity to pitch to the UN Counterterrorism Executive Directorate.
- Quora Most Viewed Writer - Artificial Intelligence** (2016) - for gaining nearly 60k views and 600 upvotes on my answer to how to build your own household version of Zuckerberg's Jarvis
- Presidential Volunteer Service Award [Gold Medal - 2014/2015, Bronze - 2016]** - for completing over 300 hours of service to my community
- Catalyst Award for Outstanding Research** (2015) - Given by North Carolina School of Science and Mathematics for displaying excellent research with eduCommit

Languages and Technologies

- Languages (by familiarity): Python, Javascript, Java, C#, VB.NET, C++
- Frameworks: Cordova, Express, Flask, Meteor
- Libraries: jQuery, Scikit-Learn, Materialize, Bootstrap, React, Tensorflow
- Database Engines: MongoDB, MySQL, Postgres, RethinkDB
- Runtime Environments: Node.js