

ANDY KAMATH
25% PYTHON, 75% WATER

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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+ post 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.Featured in NBC, ABC, CBS, FOX, and BuzzFeed		

EDUCATION

Clemson, SC	Clemson University*	Fall 2017-Summer 2021
<ul style="list-style-type: none">B.S. Computer Science* = Subject 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.
- Counteract.io** (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