ANDY KAMATH

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EMPLOYMENT

CEO   **CounteractIO**   **2015 – Present**

- Developed a machine learning-based prescreening methodology for colorectal cancer that is 60x cheaper, 4,000x faster, and even more accurate than current benchmarks, with research/advice from Penn, Yale, UC Berkeley, and UCSF. (2017)
- Developed an artificial intelligence system for diabetic retinopathy screening at 97% sensitivity. (2017)
- Worked for UN Counterterrorism Committee Executive Directorate on co-developing a system to detect threatening behavior via sentiment analysis on Twitter (2016)
- Worked for a grassroots political campaign to use social media marketing to boost page from 0 to 200,000 post reach and 10,000 combined social media page likes across Facebook and Twitter. (2015-16)

EDUCATION

Boston, MA   **Northeastern University**   **January 2018 – April 2021**

- Studying abroad at the American College of Thessaloniki in Greece for my first semester (Sept-Dec 2017)
- High School Stats: Member of Mu Alpha Theta Math Honor Society, Tri-M Music Honor Society, National Speech and Debate Honor Society, and National Latin Honor Society
- Took 12 APs: Calculus BC, Computer Science A, English Literature, European History, Latin, Macro/Microeconomics, Physics 1/2/C: Mechanics, US Government, US History

TECHNICAL EXPERIENCE

Projects

- **Gllass** (2016-17). Image segmentation and analysis for prediction of engagement and automated LSTM-based caption generation on social media sites. Python, Caffe, Tensorflow.
- **Jarvis** (2016). Small version of Mark Zuckerburg's Jarvis AI system on a home computer for basic automation tasks run through Facebook Messenger. Node.js, Facebook Chat API, Shpotify.
- **TrickleDownML** (2016). Recurrent Neural Network-based Ronald Reagan chatbot on Facebook Messenger. Python, Tensorflow.
- **eduCommit** (2015). Prototype of educational social network software. MEAN, Bootstrap.

ADDITIONAL EXPERIENCE AND AWARDS

- **Eagle Scout** (2017). Boy Scouts of America. For demonstrated service and leadership over eight years.
- **1st in Software Development and National Finalist** (2017). National Technology Students Association. For social media work.
- **Intel Excellence in Computer Science** (2017). Intel. For diabetic retinopathy research.
- **Social & Scientific Systems, Inc. Founders' Award for Excellence in Public Health** (2017). SSSI. For DR research.
- **US Army Silver Medal** (2017). US Army. For diabetic retinopathy research.
- **NC Science and Engineering Fair 3rd Award** (2017). NC Biogen Foundation. For DR research.
- **Most Viewed Writer – Artificial Intelligence** (2017). Quora. For being among the top 5 writers on AI.
- **United Nations U4H Grand Award** (2016). United Nations OICT. For social media work.
- **NC Certamen Captain and National 9th place Award** (2015). National Junior Classical League. For captaining the state certamen team at the national level after winning the state championships twice consecutively.
- **NCJCL 2nd Vice President** (2015). NC Junior Classical League. Was responsible for organizing volunteering and fundraising projects across the state of NC.
- **Presidential Volunteer Service Award** (2014, 2015, 2016). Office of the President. For over 300 hours of service to the community.

PATENTS

- **A machine learning ensemble based pre-screening test for colorectal cancer** (2017). US 62515537. Pending. For use of novel softmax optimization for increased sensitivity of colon cancer prescreen tests.