

# ANDY KAMATH

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## EMPLOYMENT

Co-Founder	CounteractIO	Winter 2015 – Present
<ul style="list-style-type: none"><li>Developed a machine learning-based prescreening methodology for colorectal cancer that is more accurate, 4,000x faster, and 60x more economical than Cologuard (patent pending, awaiting clinical validation).</li><li>Developed an artificial intelligence system for effective diabetic retinopathy screening at 97% sensitivity.</li><li>Worked alongside UN Counterterrorism Committee Executive Directorate (CTED) on co-developing a system to detect threatening behavior via sentiment analysis on Twitter</li><li>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, Instagram, and Twitter.</li><li>Worked for Hoodie Allen on optimal file sharing options for high traffic downloads of his album</li></ul>		

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## EDUCATION

Boston, MA	Northeastern University	Spring 2018 – Spring 2021
<ul style="list-style-type: none"><li>Studying abroad at the American College of Thessaloniki in Greece for Fall 2017.</li><li>Related Coursework: CS120 Discrete Structures</li></ul>		

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## TECHNICAL EXPERIENCE

### Projects

- Tri-Fi** (2017). Confined location tracking via trilateration of wifi beacons for brick and mortar shop analytics. JavaScript, GCP.
- Glass** (2016). Image segmentation and analysis for prediction of engagement on social media sites. Python, Tensorflow.
- Jarvis** (2016). Small version of Mark Zuckerberg'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.

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## ADDITIONAL EXPERIENCE AND AWARDS

- Eagle Scout** (2017). Boy Scouts of America. For demonstrated service and leadership to my community.
- 1<sup>st</sup> in Software Development and National Finalist** (2017). NC Technology Students Association. For counterterrorism work.
- ISEF North Carolina Finalist** (2017). Intel ISEF. For diabetic retinopathy research.
- 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 diabetic retinopathy research.
- US Army Silver Medal** (2017). US Army. For diabetic retinopathy research.
- NC Science and Engineering Fair 3<sup>rd</sup> Award** (2017). NC Biogen Foundation. For diabetic retinopathy research.
- Most Viewed Writer – Artificial Intelligence** (2017). Quora. For being among the top 5 writers on AI.
- United Nations H4H Grand Award** (2016). United Nations Office of Information and Communications Technology. For counterterrorism work.
- NCJCL 2nd Vice President** (2015). NC Junior Classical League. Was responsible for organizing volunteering and fundraising projects across the state as part of the 2<sup>nd</sup> largest student led organizations in the nation.
- Presidential Volunteer Service Award** (2014, 2015, 2016). Office of the President. For over 300 hours of service to the community.

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## PATENTS

- An ensemble learning based pre-screening test for colorectal cancer** (2017). US 62515537. Pending.