

Kastan Day

(206) 801-0466 | kastanday@gmail.com | kastanday.com | [linkedin.com/in/kastanday](https://www.linkedin.com/in/kastanday)

EDUCATION

Swarthmore College 2016 – May 2020
BA Computer Science, BA Cognitive Science (double major)
Relevant Coursework:

- Data Structures and Algorithms, Software Engineering, Relational (SQL) Databases, Adaptive Robotics, Algorithms, Computer Systems, Machine Learning
- Calculus, Linear Algebra, Statistics 1 & 2, Applied Statistics

Phillips Academy Andover high school Andover, MA

SKILLS

Proficient in: Python, C++, Javascript (HTML/CSS), R, Java
Web & Mobile: Node.js, React, Express, Flask; MongoDB, SQL; API design; Android dev (Java/XML)
Data analysis: R modeling; Tensorflow, Keras and PyTorch; sklearn, numpy and pandas; GCloud/AWS
Technologies: Linux (high confidence), shell scripting (Bash/Python), Git, LaTeX, the Adobe Suite

WORK EXPERIENCE

Memento Labs (startup) www.mementolabs.io

Silicon Valley, CA

Co-Founder

2018-2019

My co-founder and I built Memento to solve the global crisis of sleeplessness. We built a data platform to reinvent healthcare to be more personalized and preventative as enabled by emerging technology in wearables, machine learning, and data-driven health improvement.

- **Full stack web development:** I built and maintained the full product lifecycle using MongoDB, Express, React, NodeJS. I designed and deployed REST APIs for research-grade ANOVA statistical analysis, and machine learning in R and Python. I created an ETL pipeline to standardize smartwatch data using MongoDB. I built interactive dashboard and graph UIs in React, and much more.
- **Communication:** my writing and pitch secured a Y-Combinator interview, and an invite to their YC120 conference for 100 promising young people to have a weekend of unstructured conversations with 20 Silicon Valley tycoons.
- **Business development:** I landed 50+ seed investment meetings at firms like Trinity Ventures on Sand Hill road. These lead to partnerships with wholesale suppliers and marketing companies, and more than doubling in our monetization revenue in three months.
- **Customer obsessed:** I conducted hundreds of customer interviews, and personally onboarded each of our first 150 customers. This hands-on approach highlighted customer pain points so I could code retention features and see next-day engagement improve, speaking to the speed of our iteration as a startup.

NASA ([LaRC Autonomy Incubator](#))

Summer 2017 and Summer 2018

Software Engineering Intern

- I was wholly responsible for the computer vision software running a prototype robotic arm to assemble satellites while in Earth's orbit.
- I developed highly parallel camera data filtering and intelligent smoothing in C++. I also contributed to two open source projects to increase the performance of my algorithm 10x from the standard PCL implementation. I thrived in a highly collaborative NASA Rapid Research group.
- **Tech:** production quality C++, [OpenCV](#) and [PCL](#), [ROS](#), Linux system admin (Bash/Python scripting), [Intel Realsense 3D](#), Doxygen.

NASA ([LaRC Autonomy Incubator](#))

Summer 2016

Video Production Intern – [view my best work here](#)

SOFTWARE PROJECTS

HackMIT – [1 of 10 overall winners](#) out of 400+ teams and 1,250 students (2nd consecutive win!)

September 2018

Won best use of machine learning (Microsoft Azure), and the best use of natural language processing (Quora)

- Created an app to display 'snapshots' of your day to help you remember and search your life, and we encouraged you to journal about it. My section of the project was to generate a natural-language question or journaling prompt about an image.
- We won from the clever ways we constrained the unsolved problem of language generation, and quickly implemented a 3-layered ML pipeline to generate high-quality, natural sentences every single time. Key tech: TensorFlow, Stanford Parser, NLTK, Node.JS.

HackMIT – [1 of 10 overall winners](#) out of 400+ teams and 1,250 students

September 2017

Won Best hack for the Social Good (Baidu) and Most Interesting use of Data (Hudson River Trading)

- Created [web app for fake news detection](#) where I cleverly designed and tested a novel stance detection model in **TensorFlow**. You submit a link to an article, and if many reputable sources 'agree' with it then we can say it is most likely true. [See more!](#)

HackSwarthmore – 'Most innovative use of technology' winner

- I built an Ethereum smart contract in **Solidity** to pay users for asking and answering questions, based on votes, like StackOverflow.

[InfoGAN research paper](#) – novel research paper, facial recognition using Generative Adversarial Neural Networks

2017

[Blubo](#) – created a marketplace Android app with beautiful UI, Firebase backend, ML feature set

2017

Awarded \$2,000 by the [Abbot Academy Association](#) to lead research & education on autonomous flying drones

2015

AWARDS & ACCOMPLISHMENTS

First Ascent of Highest Unclimbed Peak in Colorado

Summer 2016

- I used my self-built drone to set ropes for the world's first drone-assisted first ascent of an unclimbed peak. [Media coverage here.](#)

The Phillipian - the oldest high school newspaper in the country

2013-2016

- Founder of the [Video section](#) and lead 6-person team - worked 30 hrs/week on top of Phillips Academy workload.

TEDxPA Speaker – Nutrition and a Whole Foods, Plant-Based Diet

2013

President's Award for Educational Excellence; National Junior Honors Society Member

2013

Founders' graduation award – best representing the spirit and integrity of the school

2013