

# Daniel Bessonov

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## EDUCATION



University of Pennsylvania  
CIS/Wharton (M&T) '23



Saratoga High School  
4.64/4.0

## EXPERIENCE

### Stanford University — Machine Learning Intern

May 2018 - February 2019

- Analyzed and segmented microbiota at the Huang Lab with a deep-learning approach (DeepCell). Developed Python and MATLAB cell lineage tracking scripts.
- [whatislife.stanford.edu](http://whatislife.stanford.edu)

### whiteCryption — Software Engineering Intern

JUNE 2017 - SEPTEMBER 2017

- Developed anti-reverse-engineering and jailbreak-secure technologies for mobile applications with React Native, Hopper, and IDA Pro.
- [intertrust.com/products/application-shielding/](http://intertrust.com/products/application-shielding/)

### Genecloud — Software Engineering Intern

JUNE 2016 - AUGUST 2016

- Created website for secure genomics research with Python, Flask, and uWSGI.
- [genecloud.com/](http://genecloud.com/)

### nFlate — iOS Developer

APRIL 2016 - AUGUST 2016

- Developed initial iterations of "See It Buy It" with Swift, Elasticsearch, DynamoDB, and Elastic Beanstalk.. Created models for image similarity queries.
- [seeitbuy.it](http://seeitbuy.it)

### Dali Labs — Co-Founder

JUNE 2014 - PRESENT

- Develop iOS applications and websites for everything.
- 100,000+ users over 12 products. 5 hackathon victories. \$5,000 in prize money.
- [dalilabs.io](http://dalilabs.io)

## Independent Research

### Carnegie Mellon (2018)

Implemented deep-learning algorithms for signal-processing and differentiation (WiFi, Bluetooth) at CMU [MEWS](#) Lab.

### Autonomous search-and-rescue UAV (2017)

Published paper at [IEEE IROS](#) 2017. Created sequential algorithm based on POMDPs; 3.4x more efficient than heuristic policy. First teenage presenter in IROS conference 30 year-history.

## Volunteering

### Organizer of CoderDojo SV (2016-Present)

Developed interactive curriculum for kids aged 5-17. Created [code-sharing](#) tools. Hosted summer camp at Cambrian Library (2017).

### Internet of Things Club (2015-Present)

Ran IoT club at Saratoga High. Raised \$5,000 from Micron Foundation for materials. Taught classes to 1st-5th graders at Bachrodt Elementary.

## AWARDS

AngelHack SV - Winner ([~1 of 100](#))  
SV Hacks Uber Grant ([~1 of 60](#))  
1517 Ventures Grant ([~1 of 300](#))  
AP CS Perfect Score ([~1 of 150](#))  
LA Hacks 2nd & [Capital One Grant](#)  
Sense360 Hackathon - Winner  
USACO Platinum Contestant

## SKILLS

Swift, Java, React Native, Flutter, AngularJS, Bootstrap, C, C++, SQL, MongoDB, TensorFlow, Torch, Keras, Bash