



# Benjamin Botvinick

134 West Highland Avenue  
Philadelphia, Pennsylvania, 19118  
(215) 880-4458  
[benbotvinick@gmail.com](mailto:benbotvinick@gmail.com)

**I am an intensely driven and team-oriented coder with professional-level skills far beyond what would be expected from a high school sophomore. I have extensive experience with full stack web and iOS development. I pick up new techniques quickly and apply them creatively. I am independent and disciplined, but I also love to work in a team setting. I am currently seeking internship opportunities for the summer of 2019, with the goal of further developing my skill set and collaborating with other talented coders to build amazing things.**

## Education and Training

2018-2021     Milton Academy (GPA 4.7)  
2018           AP Computer Science A (Score 5)  
2018           Make School Summer Academy  
                 -    Top app out of 150  
2008-2018     Germantown Friends School (GPA 4.1)

## Technical Skills

### Advanced

- Node.js
- Python
- Linux
- JavaScript
- Swift
- NoSQL
- WebSocket
- Google Cloud Platform

### Intermediate

- Java
- CSS
- AWS

## Links & Profiles

GitHub: <https://github.com/botv>

Stack Overflow: <https://stackoverflow.com/users/10056034/ben-botvinick>

Devpost: <https://devpost.com/botv>

## Selected Projects

### Intentions

At MAHacks in December 2018, I worked on an iMessage extension that helps people with autism better communicate their emotions digitally. By indicating to the user how they come across in their text through a simple and intuitive UI built specifically for people on the spectrum, we were able to integrate emotion-detecting machine learning that allows the user to be more aware of their tone. (<https://devpost.com/software/intentions>)

### Unblind

At MHacks in October 2018, my team built an iOS application for the visually impaired. We used a combination of the Google Vision API, Firebase and some basic natural language processing to read audio playback to the user describing their environment from a picture. (<https://github.com/botv/Unblind>)

### Bough

At Makeschool during the summer of 2018, I developed an iOS application that allows a user to take a picture of someone at a party or event and learn about them. On the client side, I wrote in Swift and focused on creating a nice frontend. In terms of backend, I created my own RESTful API using Node.JS that processed images for facial recognition. Bough was picked as the top app out of 150 applications built by students that summer. (<https://bough.io>)

### Unlit.io

During the spring of 2018, I built an online multiplayer game called Unlit.io. The game is essentially flashlight tag; the player roams around an environment looking for other players to shine their flashlight on. For backend, I wrote Node.JS code that communicated with a MongoDB database, as well as various API's such as Google Authentication and Stripe. As of December 2018, Unlit.io has over 5,000 users. (<https://unlit.io>)

## Employment and Engagement

2018	Attendee, MAHacks IV, <i>Boston</i>
2018	Attendee, MHacks 11, <i>University of Michigan</i>
2018	Counselor, Programming Camp, <i>Germantown Friends School</i>

## Volunteering and Leadership

- 2017-2018     Germantown Friends School Computer Science Club (founder/head)
- 2017-2018     Technology Tutor at Cathedral Village Retirement Community
- 2012-2016     First Lego League Team (founder)
  - Local champions 2012-2016
  - Regional champions 2016

## Hobbies and Interests

Programming and artificial intelligence  
Business and entrepreneurship  
Comedy writing  
Skiing, sailing, squash, tennis  
Jazz Piano

## Languages

English:   Native  
French:   Conversational

## References

Matt Zipin  
*Department Head, Computer Science, Germantown Friends School*  
[mzipin@germantownfriends.org](mailto:mzipin@germantownfriends.org)

Dion Larson  
*Head of Summer Academy, Make School*  
[dion@makeschool.com](mailto:dion@makeschool.com)