

# RYAN ELLIS

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## EDUCATION

**University of Maryland, College Park**  
B.S. Computer Science  
Minor in Statistics

College Park, MD  
May 2020

## SKILLS

### Programming Languages Frameworks/Tools

Java (*Proficient*), Python (*Familiar*), HTML, CSS, Javascript, C, Ruby  
Git, Bootstrap, MySQL, DynamoDB, Lambda

## EXPERIENCE

### Software Developer Intern *EuroDev*

Almelo, Netherlands  
Summer 2018

- Developed internal tool written in Python to automate filtering process improving efficiency and saving over 200 hours per year for the marketing department.
- Lead redesign of new landing page for website, created optimization's that lead to 20% faster load time by reducing page size and implementing caching.

### Backend Developer *Technica*

College Park, MD  
April 2018 - Current

- Worked with a team of 12 people to develop an IOS/Android application that would allow users to check-in, manage schedule, and receive notifications.
- Implemented database to handle requests from the front end using DynamoDB and connected login functionality from the API gateway to the back-end using Lambda .

### Director *Learn to Code\_*

Douglas, MA  
Oct. 2015 - May 2016

- Created a 10-week after school program that used the Scratch programming language to provide middle school students with an introduction to computer science.
- Modified lesson plans from Harvard's CS50 course to develop a class structure that was more suitable for a middle school audience and created programming projects to reinforce subjects taught in class.

## PROJECTS

### Snap to Run *Java, Python*

devpost.com/software/snap-to-run

### Winner of the Best Use of AWS Prize Dragonhacks 2018

- Android application that enables users to take a picture of hand written Python code and be sent a text message of the compiled result.
- The front-end of the application was created in Android Studio using the Android SDK and implements the Google Vision API to perform optical character recognition (OCR) on the image.
- The back-end server is written in Python and hosted on AWS where it listens for HTTP requests from the android app using a RESTful API. The server also implements the Twilio API to text the results of the Python code back to the user after it has been converted from plain text.

### Reddit Chess Bot *Python, MySQL*

github.com/ryan-ellis/Reddit-Chess-Bot

- Reddit bot that can be summoned with a text command in any comment thread, takes a specific chess position as an input and attempts to return a professional chess game that features the same position.
- Implemented using the Python Reddit API Wrapper to view and respond to comments and the Beautiful Soup 4 package to perform web scraping on a chess database when searching for positions.
- The bot is hosted on AWS and uses a MySQL database to store information regarding the users it interacts with.

## EXTRACURRICULARS

### Clubs/Activities

Astrophotography, Chess Club (*Treasurer*), Terrapin Hackers (*Event Organizer*)  
Intramural Basketball, Golf Club