#### **EDUCATION**

# University of Maryland, College Park Honors College

Computer Science and Mathematics, Dual Degree Data Science Concentration, Statistics Concentration Entrepreneurship/Innovation Honors Program Expected: May 2019 | GPA: 3.63

#### **LANGUAGES**

Python | Java | Scala | Swift | Ruby | OCaml HTML | CSS | Javascript | jQuery | SQL | C | R Work in: Spark | ElasticSearch / Kibana | React.js | React Native | Node.JS | MongoDB | Amazon Web Services | Dojo Toolkit

#### **PROJECTS**

#### **Music Composition with Deep Learning**

http://github.com/will108/Keras-Music-Generation

- Trained a deep neural network with Keras and TensorFlow Backend on classical music MIDI files
- Built predictive model with a LSTM network to generate original classical music in the styles of different composers

#### **Dandy Live Data Science Dashboard**

- Monitored user base of Dandy Live app (startup in Los Angeles area)
- Data visualizations with R Shiny
- Analyzed logs from Dandy Live App to gain insights on user base with SQL and R
- Data used to make business decisions and secure seed round of funding

### **PhotoTagger**

http://github.com/will108/PhotoTagger

- React Native iOS application to automatically share photos with friends who appear in them with facial recognition
- Implemented AWS Rekognition, DynamoDB, Lambda, and S3, as well as Facebook authentication

#### **National Hillel Basketball Tournament**

- React Native iOS and Android application for the basketball tournament
- Provides live scores to attendees of all games, game update push notifications, tournament events, team profiles
- · Built on AWS DynamoDB, S3, SNS, Lambda

#### **AWARDS AND ACHIEVEMENTS**

- University of Maryland President's Scholarship
- TAMID Group Fellowship 2017
- Deans List
- TAMID Group National Case Competition Finalist 2016

#### **WORK EXPERIENCE** -

MathWorks, Engineering Development Group Intern Natick, MA

- Developed a new means of viewing and sharing MATLAB as a readable document with live controls, code, and outputs on the web with Javascript
- Wrote tests to ensure new viewer would be compatible with existing products
- Implemented new interactive viewer to work with MATLAB online servers and existing products
- Fixed internal testing platform by improving scalability and automating active test campaigns with Javascript, Java, HTML, CSS, Dojo Toolkit

#### Neura, Data Science Intern

(Summer 2017)

(Summer 2018)

Tel Aviv, Israel

- · Developed dashboards on Kibana to monitor rapidly scaling user base
- Discovered users experiencing data-gaps in raw data collected through analysis of user data with Spark (using Scala)
- Transitioned monitoring systems from MongoDB to ElasticSearch
- · Analyzed user trends with SQL on Amazon Athena over raw data in S3

# Triple G, LLC (Acquired), App Developer

(2015-2016)

College Park, MD

- Repaired iOS "Vayde" App, the #1 trending search on the iOS App store, #15 Puzzle Game in January 2016
- · Debugged company's previous code which caused lagging in the game
- Completely redesigned the home screen, improved game fluidity, and integrated iOS GameCenter

## Harvard Medical School, Research Intern

(Summer 2015)

Boston, MA

- · Performed procedural tests with infected cancer and ALS cells
- Analyzed differentially expressed genes in R to determine the increased biological pathways in specific diseases
- Wrote a 40 page research report on DNA Microarray technology and the results of completed tests

#### LEADERSHIP EXPERIENCE

## Zeta Beta Tau Fraternity, President

(2016-2017)

- Led an executive board and over 25+ standing committees
- Designed and managed a housing budget of over \$250K to ensure stability and growth of funds
- Raised over \$18K to be donated to Children's Miracle Network Hospitals in a year
- Received the university's Outstanding Community Service Programming Award

#### National Hillel Basketball Tournament Board, Tech (2017-2018)

- · Built iOS and Android applications for participants of the tournament
- · Worked with a board of 25 to run the tournament
- Built administrator account permissions to update games live from within the app

#### **TAMID Group**, Project Manager

(2016-2017)

- Led a team to consult for Papaya Global
- Performed market research on potential customers and users of Papaya Global's software service
- Presented findings to CEO on how they could reach more customers in the United States