

# DAVIS GRAMZA

HIGH SCHOOL STUDENT – COMPUTER SCIENCE SPECIALIZATION

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## ABOUT ME

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**Languages & Libraries** Objective-C, Python, Java, SQL, Flask, React, Tensorflow  
**Interests** iOS Development, Web Development, Machine Learning, Unix  
**Media Skills** Javascript, HTML, CSS

## WORK EXPERIENCE

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### Lake County Health Department

Software Engineer Intern, Health Informatics

Waukegan, IL (June 2019 - August 2019)

- Adapted a web application to identify and target specific county demographics, allowing the advocacy of government services tailored to those populations
- Worked to refactor API integration with datasources to incorporate external county datasets by building a generalized model for datasources and extending model throughout backend
- Performed research to increase the accuracy of record linking algorithms, reported findings.
- Flask, React, PostgreSQL, Azure

### Open Doors, Lake Forest High School

Software Engineer, Education Services

Lake Forest, IL (June 2018 - June 2020)

- Built a full-stack application to connect students with job-shadowing opportunities using Flask and MySQL
- Aggregated registration data by building relational database schema to provide maximum insights to administrators through interactive dashboards
- Program services 1,500 enrolled students with 300 mentors each year at Lake Forest High School

### Target

Guest Advocate, Retail

Highland Park, IL (October 2019 - June 2020)

- Interacted with customers at checklanes to positively represent brand to give a personable connection
- Worked closely with supervising staff to ensure full coverage across front end

## COMPETITIONS AND PERSONAL PROJECTS

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### skinID

(June 2020 - Present)

- Built an application suite for skin cancer prediagnosis, able to classify images of suspected skin cancer to 80 percent accuracy
- Trained a Convolutional Neural Network using transfer learning with custom bottleneck layers
- Created an iOS app in Objective-C with programatic view layouts, allowing the submission and viewing of target images from mobile device
- Implemented Flask API endpoints for classification and user authentication to service iOS app and React frontend
- Flask, Tensorflow, Objective-C, React

### picoCTF

(October 2019)

- Solved cybersecurity oriented questions in competition hosted by Carnegie Mellon University
  - Gained perspective on security vulnerabilities in applications
- Team placed 63/10,000; Individually placed 107/10,000

## EDUCATION

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### Lake Forest High School

Lake Forest, IL (2017-Present)

- Focus on STEM Curriculum for preparation for Computer Science degree
- Took math curriculum for high school credit while enrolled in middle school
- Johns Hopkins CTY Linear Algebra grade 12
- GPA: 5.36/5 W, ACT: 36

### Online Coursework

(2017-Present)

- Independently advanced knowledge of Computer Science topics
- Harvard CS50 OpenCourseWare
- MIT 6.006 Introduction to Algorithms OpenCourseWare
- Stanford Introduction to Machine Learning Coursera