

# Imran Mohammad Ilyas

(310) 402 - 4398 | imranilyas2416@berkeley.edu | linkedin.com/in/imran-ilyas

## SUMMARY

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Software Developer Intern currently working on Computer Vision, seeking employment in Data Science/Software field. Undergraduate Class of 2020 with a Degree in Biology. Strong technical proficiency with academic experience in Databases and Data Manipulation using SQL and Python coupled with handling Big Data and querying database abilities. Work experience with C# and Unity as well as Python and OpenCV.

## EDUCATION

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### UNIVERSITY OF CALIFORNIA, BERKELEY

August 2020

Bachelor of Arts, Molecular & Cell Biology

**Relevant Coursework:** Software Engineering: Software as a Service, Design & Cybersecurity, Principles & Techniques in Data Science, Problem Solving/Problem Design Using C++, Biostatistics, Physics: Mechanics & Wave Motion, General Physics w/ Calculus, Single Variable Calculus & Analytic Geometry

## SKILLS AND TOOLS

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| <ul style="list-style-type: none"><li>• Python (SQLite, NumPy, Pandas, Matplotlib)</li><li>• C++</li><li>• C#</li><li>• Java</li><li>• Unity</li><li>• R</li><li>• HTML</li></ul> | <ul style="list-style-type: none"><li>• Data Management / Data Analysis</li><li>• OpenCV</li><li>• Pair Programming</li><li>• Problem-Solving</li><li>• Statistics</li><li>• Mentoring</li><li>• Pivotal Tracker</li></ul> |
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## EXPERIENCE

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### VISION 13

September 2020 – January 2021

*AI Software Developer Intern*

- Utilize OpenCV and Python to develop object detection model to run on mp4 videos for data gathering purposes
- Create and improve existing scenes in Unity using C# by writing multipurpose scripts

### Bridging Berkeley

September 2018 – May 2020

*Longfellow Middle School Mentor*

- Worked as a mentor to raise students' math comprehension level in an underprivileged middle school
- Improved students' work ethic through positive feedback
- Increased their understanding by walking them through abstract concepts, motivating students to succeed on a higher level

## PROJECTS

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### ActionMap Application

- Application allows user to search for government representatives by clicking on national map or by inputting address. User can either select profile page or associated articles
- Created user stories on Pivotal Tracker based on the spec file and assigned points as a team
- Implemented test cases using Cucumber to ensure the application runs as intended
- Pair Programmed through VS Code, from setting up models, controllers, and views to the routes in Ruby on Rails

### Predicting Basketball Players' Shooting Success in the NBA

- Exploratory Data Analysis of the college.csv file to examine structure and potential trends in the dataset
- Created training and test models based on NCAA shooting stats to predict NBA points per game
- Defined accuracy and cross validation predictions to determine the reliability of the model

### Spam Filter

- Multiple user-defined functions written in C++ through Microsoft Visual Studio that scans the subject and body of an email, assigning points based on content
- Assign email as legitimate or spam depending on the point score