

Imran Mohammad Ilyas

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EDUCATION

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

SKILLS AND TOOLS

Programming Languages: Java, Python, C++, C#

OS, Frameworks, and Tools: Unity, OpenCV, Google Cloud Platform

EXPERIENCE

Next Capital Tech

September 2020 – January 2021

Software Developer Intern

- Utilize OpenCV and Python in developing object detection model to run on mp4 videos for data gathering purposes
- Virtual Reality: Create and improve existing scenes in Unity using C# with storage of data handled by GCP
- Simon Fraiser University's HPC OpenACC Bootcamp: GPU Programming and Hackathon team participant using C++

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
- Elevate their understanding by walking through core concepts, motivating students to succeed

PROJECTS

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 a spec file and assigned points as a team depending on the complexity of the user story
- Implemented test cases using Cucumber to ensure the application runs as intended
- Pair Programming through VS Code, from setting up models, controllers, and views to the routes in Ruby on Rails

AlphaString (JAVA)

- Algorithm that returns the position of a string after several additions through an iterative process
- Similar to how Excel names its columns passed Z; i.e., AA – AZ, BA and so on
- Potential use for keeping track of data being assigned to a specific position

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