

HARRIS BEG

harris@caltech.edu ◊ harrisbeg.com ◊ linkedin.com/in/harrisbegcca ◊ github.com/hbg

EDUCATION

California Institute of Technology

September 2020 - June 2024

B.S. in Computer Science

Computer Languages

Python, Java, C#, ReactJS, NodeJS, JS, HTML, CSS, SASS, Go

Tools

Git, Android SDK, Laravel, Django, MongoDB, Flask, Tensorflow, Google Cloud, Firebase

EXPERIENCE

Grabify

November 2018 - Present

Co-Developer

- Worked in a team of 3 to initiate a new design phase of Grabify & suggest/implement new features, such as invisible Imgur links.
- Used PHP, JS, HTML, and Materialize (a CSS framework) to construct an IP-logging website, grabify.link; Grabify generates 700,000+ monthly users and has been featured on MTV's Catfish show.
- Grabify has over 120,000,000 total logs to date, over 10,000,000 links, and 800,000 registered users.

MySocialHub

November 2017 - December 2018

Frontend Web Developer

- Made use of Laravel and its core components, including PHP, JS, HTML, SASS, and MySQL to develop a car community platform, including websites like salomondrin.com, which has 100,000+ users. Used by YouTubers with over 1,000,000 subscribers.
- Relayed fixes while also reporting bugs, all through an interconnected Bitbucket repository.
- Became well versed in the different aspects of Git workflows, including pull requests, branch conflict resolution, and the designation of tasks through JIRA and Atlassian.

Super Hack

June 2019 - June 2020

President

- Orchestrated San Diego's premier 12-hour high-school hackathon by securing over \$5,250 in funding + \$10,000 in prizes.
- Assembled and led a team of five to organize our hackathon (over 400 signups, making it the most popular high-school hackathon in Southern California) and acquired sponsors, contacted school faculty, and communicated between divisions to set up event.
- Featured on Del Mar Times, Rancho Santa Fe Review, and San Diego Reader to increase registrants. Acquired sponsors including GitHub, General Atomics, ResMed, San Diego Data Science Alliance, and BrainCorp. Event website: superhack.org.

Hibotics

August 2019 - June 2020

Software Engineering Intern

- Developed a websocket communication protocol to relay movement messages from a website to a Hibotics ceiling traversal robot.
- Worked to further advance a Learning Management System based in Django and utilizing MongoDB and Cloudflare video streaming.
- Generated sample ultrasonic data for machine-learning classifier using matplotlib and numpy.
- Aided in development of hand tracking software and multiprocessing analysis to create the fastest video stream possible.

University of California, San Diego - Center for Energy Research

June 2017 - August 2017

Intern

- Created Python scripts through the use of Jupyter Notebooks and libraries including numpy, matplotlib, Canny Edge Detection, and OpenCV to detect the sun's position for the use of solar panels.
- Developed on a BeagleBone platform to try and predict the position of the sun, theoretically applied to solar panels such as those that help power the University of California, San Diego.

PROJECTS

skinCAM

November 2017 - Present

Founder

- Employed a Tensorflow, Python, and Firebase-based backend in conjunction with an application developed with Android Studio to identify skin diseases. 95% accuracy over a custom training set of thousands of images (taken from DermNetNZ through a web scraper). "skinCAM" is currently on Play Store, and its technology was the subject of a provisional patent (62/652,525).
- Won first prize at Greater San Diego Science & Engineering Fair, as well as over \$2000 in awards { IEEE Professional Society Award, Kaiser Permanente Grand Award, Sigma Xi Award, California State Science & Engineering Science Fair Qualifier }.