BRIAN SAKHUJA

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EDUCATION

Villanova University   **May 2017**
- B.S. in Electrical Engineering and minor in Computer Science. Graduated Cum Laude.
- Relevant coursework: software engineering, database systems, machine learning, microcontroller application design, MATLAB, antenna and transmission line design, signal processing, electrical communications, system models & control, data structures, analysis of algorithms.

SKILLS

Languages
- Swift, C#, Python, JavaScript, Typescript, C++, C, Java, HTML, CSS,

Software
- Xcode, VSCode, Unity
- Trello, Slack
- Figma, Sketch

Tools, Frameworks, & Technologies
- Git, Agile/Scrum
- Tensorflow, Dropbox API, Alamofire, Firebase
- Arduino, Raspberry Pi

RELEVANT iOS EXPERIENCE

UCLA Radio   **October 2017 - April 2018**
Software Developer
- Updated iOS application from Swift 3 to Swift 4.
- Added iPhone X support.
- Created new feature that displays DJ biography information using UCLA Radio's API. Added a new view controller to be presented with the assistance of a CocoaPod.

Make School   **June - August 2017**
- 8-week, 40 hours per week iOS application development bootcamp using Swift and Xcode.
- Developed an application called "Streambox" which allows users to stream their music from Dropbox. Available on the App Store.
- Presented Streambox to all who attended Demo Day. Presenters were chosen on the technical difficulty and polish on their app as well as the quality of their presentation.

SELECTED PROJECTS

RGB, a game made in Unity
- Made in 12 hours at UCLA's hackathon, Hack on the Hill 4. Working in a team of four, we built a puzzle game from scratch. Did not have prior experience with Unity or C#, but was able to learn on the fly.

Haptic navigation device for visually impaired
- Built a hat using an Arduino in tandem with motors to provide intuitive haptic feedback when obstacles are present. Worked in a team of three.

ADDITIONAL WORK EXPERIENCE

Villanova Radio
General Manager   *April 2016 - May 2017*
- Created new website and a comprehensive guide to station operations.
- Remodeled station to make it handicap accessible. Purchased new equipment for station. Restructured staff positions and responsibilities

Technical Director   *September 2014 - April 2016*
- Built new computer for station. Installed new automation software and trained DJs to use it.
- Performed weekly maintenance on equipment. Maintained logs of FM transmitter readings.