

# BRIAN SAKHUJA

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## EDUCATION

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### 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

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### 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

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### 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

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### 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

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### 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.