

# JAI AGRAWAL

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## EDUCATION

**University of Illinois at Urbana-Champaign**

Bachelor of Science, Computer Engineering

December 2018

(Completed in 3.5 years)

## TECHNICAL SKILLS

- Proficient: C++, C, Python, HTML, CSS, JavaScript
- Working Knowledge: JavaScript Frameworks (Materialize, React, Angular), Java, SQL, Node.js, WebGL, Swift, Objective – C, System-Verilog, Bash, CUDA
- Tools: Git, Visual Studio, Android Studio, EAGLE, Xcode, Sketch, AWS, Docker, AutoCAD, Linux, Windows 10, macOS

## PROJECTS

### RSOsaurus

- Created a fully functional web page that allows users to browse UIUC RSOs (student organizations) by various parameters (such as type or title), as well as, learn and enroll in RSOs (HTML, JS(materialize), Flask, SQL)
- Developed a novel method for students to find a club of their interests using a quiz based approach to classify certain RSO subgroups

### RowingTracker

- Designed and implemented a fully functional rowing device that gave real time analysis of rowers' wattage, velocity, and stroke pattern while on the boat. Entailed creating a harness to measure rowers power, creating a customized PCB to handle data coming from harness as well as a GPS tracker, and creating a python script for data analysis (Python, C, EAGLE)

### CUDA Optimization Project

- Modified MxNet neural-framework by implementing an optimized neural-network convolution layer forward pass as well as utilizing other optimization techniques. (Python, CUDA, AWS)

### Echo: Journey-Based Radio

- Worked with fellow students to create a functional IOS app that allows users to experience music based on location (Objective-C, Node.js)

### Divekick SV

- Implemented the game Divekick (fully-functional) on an FPGA (C, System-Verilog)

## JOB EXPERIENCE

### Mobilize Solutions

June 2017 – August 2017

#### Technology Development Intern

- Worked on a CMS where clients could upload filters on Camera+ Application as well as managed changes on company website (HTML, CSS, JS, SQL)
- Designed and implemented a cleaner and new user experience for Virtual PhotoBooth app users (Swift, JS, Angular)
- Conducted user-testing and QA for mobile application (Xcode, AndriodSDK)

### FeedBackInfra

June 2014 – September 2014

#### Technology Services Intern

- Worked with a team of infrastructure engineers to design roadway systems utilizing AutoCAD programs (Python)