

# Rahul Shah

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## Education

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**University of Illinois at Urbana-Champaign**  
B.S.E. Computer Science (Engineering)

Class of 2019  
GPA: 3.63

- **Completed:** CS 225 Data Structures (taught in C++), CS 125-Intro to Computer Science (Java course)
- **In Progress:** CS 241 Systems Programming, CS 233 Computer Architecture

## Work Experience

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**Chamberlain Group, Oak Brook, IL**

Firmware Engineering Intern | May 2017-August 2017

*The industry leader in garages and embedded products, specializing in the Internet of Things space*

- Created a test harness console application in Visual Studio C to validate the sending of messages over UART to a ZM5202 microprocessor.
- Aided in constructing an API utilizing callbacks that allowed communication of a garage door hub, controlled by a Marvell processor, with the ZM5202, via the Z-Wave communication protocol.
- Developed a platform independent UART driver that was able to either run in a Windows or Free-RTOS environment. The driver was also configured to run in a multi or single threaded application, depending on the resources of the platform.

**Katalyst Technologies, Evanston, IL**

Summer Internship | Summer 2016

*An independent technology firm specializing in consulting, IT, and app development*

- Aided in creating sorting algorithms to reorganize companies' customer databases
- Assisted in developing an Android real estate app. Created a conceptual framework of the logistics behind the app while evaluating the product interface.
- Compiled a product report on BoardShare, a virtual multi-platform whiteboard. Assessed the functionality of BoardShare through tests with younger users.

**Programming Languages:** C/C++, Ruby on Rails, Java, ReactJS, Android, MySQL

## Activities & Leadership

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**CS 296: Data Visualization**

Spring 2017

*Used D3.js to make meaningful visualizations with gender data*

- Given a large dataset of gender data for specific majors over a time period of 30 years.
- Tasked with creating a visualization that meaningfully displayed this data for many to understand.
- Made an interactive bar graph accurately displaying the gender growth in some majors while also illustrating the decline in others. Made sure to scale the data, accounting for the number of people in the major.

**DevMatch**

Summer 2017

*A website used to connect developers to entrepreneurs*

- Using the Ruby on Rails framework, created a website that would allow developers to meet entrepreneurs. Users can log in and view the contact information of other users if they pay a monthly \$10 fee. Implemented the website using Bootstrap and deployed it via Heroku. Also used Mailgun and Stripe for mailing customers and charging customers, respectively.
- Check out the website at <https://ancient-plains-97934.herokuapp.com> or by visiting my webpage. Also working to create another website to showcase advanced football statistics.

**PURE Undergraduate Research**

Fall 2017

*A program which connects undergraduates to master's students conducting research*

- Aided in conducting research in the field of social human-computer interaction. Measured responses to algorithmic sliders and how people made sense of what was displayed.
- Created a web-app in ReactJS used by participants in our experiments. The web-app is constructed in a specific way to isolate and analyze certain UI elements and participants' reaction to those elements.

## Special Skills

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**Music:** Skilled in Guitar and Violin, ILMEA Award Winning Symphony Orchestra

**Math:** 3-time State Qualifier in Individual and Team Events