Rahul Shah

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Education

University of Illinois at Urbana-Champaign Class of 2020
B.S.E. Computer Science (Engineering) GPA: 3.32

- **Completed:** CS 241 Systems Programming, CS 374 Algorithms, CS 225 Data Structures
- **In Progress:** CS 440 Artificial Intelligence, CS 498 Virtual Reality

Work Experience

Salesforce, San Francisco, CA Software Engineering Intern|May 2018-August 2018
The corporation behind the world's #1 CRM

- Used Salesforce's Einstein Analytics Wave platform to visualize hardware and software configurations of various hosts, aiding developers in finding discrepancies in their patches. Built the entire data pipeline from querying metrics from each host to aggregating the data in a visualized fashion.
- Shifted a server testing platform into AWS by modifying a Django-based website to create and destroy hosts (on-prem) in AWS. Was able to spin-up a virtual host in AWS, copy over a database snapshot, and run precompiled SQL queries on it to determine if a change in hardware or software would distort the database.

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 Studios 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.

Programming Languages: C/C++, Ruby on Rails, Java, React, Android, MySQL, Django, Python, Node

Activities & Leadership

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 view the contact information of other users if they pay a monthly $10 fee.
- Check out the website at https://ancient-plains-97934.herokuapp.com or by visiting my webpage.

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

Music: Skilled in Guitar and Violin, ILMEA Award Winning Symphony Orchestra
Sports: Interested in analytics and their application in sports. Ask me about Chicago sports. Go Cubs!