

# JONATHAN XU

## Education

**University of Illinois at Urbana-Champaign** Aug 2015 - Present  
B.S. Computer Engineering (2019), GPA: 3.99  
Engineering Dean's List (Fall 2015, Spring 2016), James Scholar  
**Relevant Courses:** Introduction to Computing, Computer Systems & Programming, Data Structures

## Experience

**Data Engineering Intern, CEB** Oct 2015 - Present

- Worked with a team of UIUC students and professionals at CEB.
- Managed data within Hadoop clusters using tools such as Hive and Sqoop
- Created, populated, managed an Elasticsearch index and built data visualizations using the Kibana interface
- Built user interfaces and data visualizations for marketing data using D3.js

**Team Captain, FIRST Tech Challenge Robotics** 2011 - 2015

- Managed a team of 8 engineers 12+ hours/week to build a competitive robot
- Used Autodesk Inventor to design and prototype ideas
- Two time participant at the FIRST World Championship

## Projects

**Grapevine** Mar 2016 - Present

- Grapevine is a social event finding iOS and Android app where users can post hosted events or find ones happening near by
- Worked on a RESTful API backend architecture to manage app data
- Built using Node.js, Express, Chai, and Socket.IO with a MongoDB database

**ScavAR** WildHacks, 2015

- Augmented reality scavenger hunt mobile application where specific tokens generate animated, three dimensional models on the user's screen
- 1st place winner, Paypal/Braintree Most Disruptive Use of Braintree SDK or Paypal API
- Built using Unity, Vuforia, and Ruby on Rails

**Cookie Jar** WildHacks, 2016

- Chrome extension that donates your money to charity whenever you browse distracting websites
- Winner of Best use of Data Visualisation
- Built with HTML/CSS/Javascript, Node.js, MongoDB, D3.js and Stripe

**Ask Political** SpartaHacks, 2016

- Alexa Skill for informing voters about elections, and relevant political news
- Built with Node.js, NYT API, and hosted with AWS Lambda

## Campus Involvement

**RedC Robotics Lead Web Developer** Sep 2015 - Present

- Created redcrobotics.com using Node.js, Express, and MongoDB
- Website used as a promotional tool as well as a way to manage team applications, contact, and member information

## Details

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## Languages

C  
C++  
CSS/Sass  
HTML  
Java  
Javascript  
Python  
SQL

## Technologies

D3.js  
Git/SVN  
Hadoop  
Linux  
MongoDB  
Node.js

