riyub@umich.edu
github.com/dgriyu
riyub.me

# Riyu Banerjee

## Education

University of Michigan
Ann Arbor, MI.
Majoring in Computer Science
College of Literature Science & Art
Expected Graduation : 2018

## Relevant Courses

- Introduction to Computer Organization EECS 370
- Introduction to Machine Learning EECS 445
- Introduction to Autonomus Robotics EECS 398
- Foundations of Computer Science EECS 376
- Data Structures and Algorithms EECS 281
- Introduction to Operating Systems EECS 482
- Introduction to Computer Security EECS 388

## Job Experience

**Software Development Intern | Foresee** **May 2016 - August 2016**

- Assisted in the transition from datacenters to cloud hosted applications on AWS
- Developed a devops infrastructure automation system to create an operations maintained tool for creating infrastructure
- Used both Ansible and Jenkins for the creation and deployment of micro services as well as rollback code
- Performed interviews with other employees in order to identify needs in the system and actionable tasks

**Web Developer | MSU College of Natural Science** **October 2013 - May 2014**

- Migrated the Natural Science departmental website from WordPress to a new site based on the Mura CMS
- Authored web content in HTML/CSS and Javascript for the site

## Projects

**Amazon Review Helpfulness Prediction** **September 2015 - December 2015**

*Algorithm that takes in data sets of Amazon reviews and finds a model to predict helpfulness*

- Converted Amazon reviews into a set of features such as word2vec values, word count, and sentiment.
- Experimented with various machine learning algorithms such as SVM and Logistic Regression to find best fit

**Big Data Buses Application** **February 2015 - May 2015**

*A replacement for the current university bus app with stat tracking of users sent to a server for extrapolation of meta-data*

- Utilized the Google Maps API on Android to provide a smoother and more accurate experience than current bus app

**MHacks Android Application** **October 2014 - August 2015**

*Developed the MHacks V and 6 Hackathon applications*

- Updated and utilized Android 5.0 material design standards including floating action buttons.
- Pulled data from a Parse back-end and cached data on application

**Backseat Driver Android Application** **September 2014**

*Application which teaches you step by step how to drive a stick-shift vehicle using data collected from the OBD II port in a vehicle in motion and utilized the Open-XC library*

- Awarded Chrysler's "Connected Car" award, Farm Log's "Best use of Mobile Sensor Data", and Best Societal Hack at MHacks IV

**High School Robotics | Grand Blanc High School (FRC) #2337** **September 2010 - May 2013**

- Participated in the First Robotics Competition, in which high school students design robots to compete in challenges.
- Implemented PID motor control algorithms to optimally set the velocity of a wheel and best maintain RPM

## Experience

**Michigan Hackers CORE Executive** **September 2014 - Ongoing**

- Executive member of mentorship in Organization responsible for curating and fostering the CS community at UofM
- Raised awareness of other collegial hackathons to the student body as well as organized transportation.
- Given responsibilities over various applications and projects as well as the role of mentoring younger programmers

**Tech Team | MHacks CORE** **April 2015 - Ongoing**

- Collaborated with the MHacks team to host Mhacks, one of the largest and most prestigious collegial hackathons.
- Developed for technical team, planning and creating the applications and more for future event.

**Mentor | First Robotics Competition Team** **October 2014 - May 2015**

- Mentored High School aged children in the FRC program
- Taught younger members basic programming concepts in java

## Programming Languages

**Proficiency : C++, Java, Android, Python, HTML, CSS, Javascript** **Familiar: Labview, Visual basic, Matlab**