

Riyu Banerjee

Education

University of Michigan, Ann Arbor, MI
Major: Computer Science
College of Literature Science & Art
Expected Graduation: Winter 2018

Relevant Courses

EECS 492 (Intro to AI), EECS 485 (Web Systems), EECS 482 (Intro to OS),
EECS 445 (Intro to ML), EECS 398 (Intro to Autonomous Robots),
EECS 388 (Intro to Computer Security),
EECS 376 (Foundations of Computer Science),
EECS 370 (Intro to Computer Organization),
EECS 281 (Data Structures and Algorithms)

Currently Taking

EECS 498 (Reinforcement Learning), EECS 442 (Computer Vision)

Job Experience

Software TDP Intern | Capital One

June 2017 - August 2017

- Built CI/CD Paas pipeline on top of Kubernetes within a Flask based UI. Utilized the Docker SDK as well as the Kubernetes API
- Integrated new filtering feature for internal monitoring service through use of Angularjs, Nodejs, and EJS
- Strengthened presentation skills by pitching Paas POC to upper management
- Rapidly learned new tools and frameworks to complete individual and team goals for the 10-week program

Software Development Intern | Foresee

May 2016 - August 2016

- Assisted in the transition from data centers to cloud hosted applications on AWS
- Developed a DevOps infrastructure automation system to create an operation maintained tool for creating infrastructure
- Used both Ansible and Jenkins for the creation and deployment of micro-services as well as rollback code

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

January 2016 - May 2016

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 the best fit

Better Busing 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 backend and cached data on application

Backseat Driver Android Application

September 2014

Application that teaches step by step how to drive a stick-shift vehicle using data from the OBD II port by utilizing 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

Extra Curricular

Mentorship Executive | Michigan Hackers CORE

September 2014 - May 2017

- Organized mentorship to create and foster the "Hacking" community at UofM through tech talks, hack nights, and other events
- Raised awareness of other collegial hackathons to the student body as well as organized transportation.

Tech Team | MHacks CORE

April 2015 - September 2016

- Collaborated with the MHacks team to host MHacks, one of the largest and most prestigious collegial hackathons.
- Planned and created the applications and more for future events along with the rest of the development team.

Mentor | First Robotics Competition Team

October 2014 - May 2015

- Mentored High School aged children in the FRC program in Java and basic programming concepts

Technical Skills

Languages: C++, Java, Python, Javascript, HTML, CSS, Bash, SQL

Technologies: Flask, AngularJs, Android, Git, Docker, NodeJs, Jinja