

# Badrinath Radhakrishnan

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## EDUCATION

### Stony Brook University

December 2017

Master of Science- Computer Engineering

GPA: 3.63/4

**Relevant Courses:** Analysis of Algorithms, Mobile Sensing Systems and Application, Pattern Recognition and Data Mining, Mobile Cloud Computing, Visualization, Algorithms: Design and analysis (Online), Machine Learning (Online)

### SASTRA University

May 2013

Bachelor of Technology- Electronics and Communication

GPA: 8.26/10

### Research Publication

Published a paper titled "MSB constrained based variable embedding" based on Steganography in IEEE, DOI: 10.1109

**Presentation:** Presented a paper "Balanced Block for Imbalanced Data Concealing" at National Conference on Information Security, 2012

## TECHNICAL SKILLS

### Programming Languages

Java, Python, C, C++

### Web Languages and Database

JavaScript, Node.js, React, Redux, jQuery, HTML, CSS, MongoDB, DocumentDB, AngularJS, D3.js, SQL, Flask, RestAPI, Less, Sass, Django, PostgreSQL

### Software Tools

Eclipse, MATLAB, Android Studio, Octave, PSoC Designer

## WORK EXPERIENCE

### Stony Brook Medicine

December 2016 - Present

#### Graduate Research Assistant -Computer Programmer

Stony Brook, NY

- Developing an Asthma Management **Web Application** to help patients collaborate with doctors and other members with various authorization levels using **Node.js** and **MongoDB, DocumentDB and GridFS**.

### ZOHO Corporation Private Limited

May 2013 - July 2016

#### Member Technical Staff, ZOHO Sheet

Chennai, India

- Restructured the Architecture, DOM manipulations, Ajax request handling, of borders and merge cell operations resulting in improved usability and significant response time reduction using **Java** and **JavaScript**.
- Implemented 'Cell Overlay', a feature which allows long texts to overflow into the next empty cell for better readability and also redesigned the core logic involved in manipulating DOM elements while scrolling the sheet and while performing grid operations (Insert/Delete Rows/Columns, Freeze Panes) using **JavaScript** and **Java**

### ZOHO Corporation Private Limited

Dec 2012 - May 2013

#### Project Trainee

Chennai, India

- Contributed to the efforts to realize the design objective of sharing individual sheets with the collaborator instead of exposing the whole workbook thus adding a layer of safeguard against the probability of whole document damage using **Java, JSP, and JavaScript, HTML, CSS**

## PERSONAL PROJECTS

### RommieFinder (Technologies: Node.js, jQuery, MongoDB, AWS, SASS, EJS, Grunt)

June 2017

Developed a roommate finder **Web Application** from scratch to help people find their potential roommates and also finding subletter by providing the best match based on their personalities and preferences

### SportsSpot (Technologies: Node.js, React, Redux, Socket.io, Webpack, Bootstrap, CSS)

July 2017

Built a Sports feed **Web Application** from scratch to get live news, stats, scores, schedules and teams using MySportsfeed and EventRegistry API.

## ACADEMIC PROJECTS

### Visualization of Crime recorded in Austin (Technologies: Python, D3.js, Flask and Database: MongoDB) April 2017

Created various interactive plots to provide an in depth analysis of types, frequency and location of various crimes committed at Austin in order to effectively allocate resource to combat crimes

### Freudian Chat - Android Chat application with sentiment analysis (Language: Java, Python, Flask) April 2017

Developed an Android chat application that performs sentiment analysis on the user messages and suggests a YouTube link to movie scene selected from the MovieLens database using Apache Spark and MLLib ALS.

### Visualization of Crime recorded in North Carolina (Language: Python, D3.js, and Database: MongoDB) March 2017

Created an interactive scatter plot that visualizes the Crime Records stored in a **MongoDB** database using stratified sampling by k-means clustering and dimensionality reduction using PCA along with **Flask Python** web framework.