

# Vinay Rayini

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## EDUCATION

### THE UNIVERSITY OF TEXAS AT AUSTIN

#### BS IN COMPUTER SCIENCE

Expected May 2018 | Austin, TX

College of Natural Sciences

University Honors List

GPA: 3.98 / 4.0

## LINKS

Personal Website:

<https://www.cs.utexas.edu/~rayiniv>

Github:

<https://github.com/rayiniv>

LinkedIn:

<https://www.linkedin.com/in/vinay-rayini-157655ba>

## COURSEWORK

Big Data

Modern Web Applications

Operating Systems

Computer Organization & Architecture

Data Structures

Intro. to Programming

Algorithms and Complexity

Discrete Mathematics

Probability & Statistics

## ACTIVITIES

Mobile App. Development (MAD)

Association for Computing Machinery

Hackathons

- HackTX - 3 years experience

## TECHNICAL SKILLS

### PROFICIENT

Java

### COMPETENT

Python, C, JavaScript, AngularJS,

HTML/CSS, Bootstrap, Amazon Web

Services, Hadoop MapReduce

### NOVICE

NodeJS, ExpressJS, JDBC, Hibernate,

SQL, MySQL

## EXPERIENCE

### EXXON MOBIL | SOFTWARE ENGINEERING INTERN

May 2016 – August 2016 | Houston, TX

- Worked on the Architecture & Technology team to plan, design, and develop a dynamic SharePoint based Kanban Board web application to optimize internal work flow
- Helped with the team's transition to an Agile Methodology workflow, increased productivity, and enabled managers to more effectively plan projects
- Developed support for Agile methodology features like WIP limits, dynamic workflow mapping, work status visualization, and manager tools
- Leveraged a Microsoft SharePoint backend and AngularJS frontend
- Extensive use of the SharePoint REST API and work in AngularJS, HTML/CSS, and Bootstrap

### UT AUSTIN DEPARTMENT OF COMPUTER SCIENCE | COMPUTER SCIENCE TUTOR

September 2015 – December 2015 | Austin, TX

- Taught Java to computer science students in group sessions
- Helped students understand project design and testing in order to build higher quality projects

## PROJECTS

### WEB APPLICATIONS DEVELOPMENT

- Built a NodeJS and ExpressJS based Star Wars movie web application
- Designed a RESTEasy based RESTful Web API to present data from Openstack's IRC meeting logs
- Designed JDBC and Hibernate Framework based REST APIs to interact with local MySQL database
- Built Servlet and Spring Framework based web applications to capture information from social media related data

### BIG DATA PROGRAMMING

Utilized Hadoop MapReduce and Spark to analyze large data sets

- Used Hadoop MapReduce and AVRO schemas to model and calculate statistics for a large set of user session data from a car dealer website
- Implemented job chaining and data joins of various data sets using MapReduce to gather insightful statistics regarding user behavior

### JAVA APPLICATIONS

Designed and implemented a variety of Java based applications including:

- Huffman Encoding Compressor
- Sudoku Solver, Anagram Solver
- Ping Pong Game, Snake Game, Evil Hangman Game

### OPERATING SYSTEMS

Designed and expanded the PintOS operating system to include:

- Priority scheduling
- Argument passing on the stack
- System calls for user programs
- Virtual memory subsystem
- Multi-level indexed file system