

# 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

Distinguished College Scholar

GPA: 3.98 / 4.0

## LINKS

Personal Website:

[www.vinayrayini.com](http://www.vinayrayini.com)

LinkedIn:

[www.linkedin.com/in/vinay-rayini](http://www.linkedin.com/in/vinay-rayini)

Github:

[www.github.com/rayiniv](http://www.github.com/rayiniv)

## COURSEWORK

Artificial Intelligence

Big Data

Modern Web Applications

Wireless Networks

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

## TECHNICAL SKILLS

### PROGRAMMING

Proficient:

Java, Python

Competent:

C, JavaScript, AngularJS, SQL

Novice:

C++, React, NodeJS, ExpressJS

### TECHNOLOGIES

Amazon Web Services, Google Cloud Platform, Docker, Kubernetes, Hadoop MapReduce, Apache Spark, Vert.x, Flask, Spring, Dropwizard, REStEasy, Jenkins, TravisCI, Maven/Gradle, Jinja2, RAML, Swagger, Apache Cassandra, PostgreSQL, SQLAlchemy, MySQL

## EXPERIENCE

### GODADDY | SOFTWARE ENGINEERING INTERN

May 2017 – August 2017 | Seattle, WA

- Worked on the Customer Insights team to develop a robust Apache Beam based pipeline for managing and drawing insights from customer data
- Helped develop an architecture for storing and modeling customer activity data over time through a large scale asynchronous Vert.x based RESTful API service
- Developed an open source RAML based REST API code generation framework complete with plug-in capabilities and multi-language support to allow development of more pragmatic RESTful API services
- Worked with a variety of technologies including Java, Vert.x, Apache Beam, Google Cloud Platform, Kubernetes, RAML, Swagger, Apache Cassandra

### EXXON MOBIL | SOFTWARE ENGINEERING INTERN

May 2016 – August 2016 | Houston, TX

- Worked on the Architecture & Technology team to design/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
- Extensive use of the SharePoint REST API and work in AngularJS, HTML, CSS

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

September 2015 – December 2015 | Austin, TX

- Taught students project design and testing fundamentals to help them build higher quality projects

## PROJECTS

### YOUTUBESWEG WEB APPLICATION

Dynamic Python web application to display insights from YouTube video data

- Utilized Python Flask framework for handling of routes, data processing, API calls, database connections/updates, rendering templates, etc.
- Deployed application on Google Cloud App Engine and used Google Cloud SQL for PostgreSQL database for data storage
- Dynamic front end complete with search, filtering, pagination, and data visualization features. Implemented with ReactJS, Jinja, and Bootstrap
- Engineered a RESTful API to present the insights gathered from processing of YouTube data to other developers

### 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 insights regarding user behavior

### WEB APPLICATIONS DEVELOPMENT

- Built a NodeJS and ExpressJS based Star Wars movie web application
- Built Servlet and Spring framework based web applications to capture information from social media related data