Archita Racherla

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# EDUCATION:

**B.S. in Computer Science** Major GPA:

University of Texas at Dallas, Richardson, TX**.**

# RELEVANT COURSEWORK:

Computer Science I (C++) Computer Science II (Java)

Discrete Math For Computing I Computer Architecture (Assembly Mips)

Linear Algebra Programming Fundamentals (C++)

Computer Science and Software Engineering and Computer Science Organization of Programming Languages Probability and Statistics in Computer Science Discrete Math For Computing II Data Structures and Algorithms

Database Systems Introduction to Machine Learning Professional Responsibility in CS & SE Software Engineering

C/C++ Programming in a Unix Environment Social Issues & Ethics in ECS Professional & Technical Communications Operating Systems Concepts Advanced Algorithm Design & Analysis Digital Logic and Computer Design

Human Computer Interactions Automata Theory

Data and Applications Security Computer Networks

**SKILLS and ABILITIES**

* Programming Languages/Tools: Java, JavaScript, C/C++, Assembly (MIPS), SQL, Python, Kafka, GROK, HDFS, UML, React Native, Node.js, Express.js
* Databases: MySQL, MongoDB
* Operating Systems: Unix
* Platforms: AWS public cloud
* Android App Development UTD Certification

# WORK EXPERIENCE

## JP Morgan Chase Internship July 2020-August 2020

* + Designed and Developed a cross-platform Mobile App using React Native, Express.js and MongoDB for Perot Museum to increase number of visitors through improved user experience and customer safety
  + Developed application functionality using agile methodologies ( user stories, prioritization, and sprints)
  + Designed a Web App for Perot Museum staff to manage digital content

## Texas Instruments Project- Automatic Semiconductor Defect Classification January 2020- May 2020

* + Developing codes to read defect images and run classification training using Machine learning algorithms (Gradient Boosting and Random forest) for multiple inspection layers

## JP Morgan Chase Internship June 2019-August 2019

* + Designed and Developed a data parsing, transformation, and data streaming service for users to extract and import data from logs to a data bus (data warehouse)
  + Developed Rest Service APIs to extract data from various data sources and provided functionality for CRUD operations on data using S3, HDFS, Kafka services
  + Developed unit tests and performed unit testing

## Distributed Systems Lab

**April 2018-May 2019**

* + Created a mobile Android App using Kotlin to help farmers monitor temperature of their plants to ensure proper harvest.

## Quality of Life Labs May 2017-Aug 2017

* Learned about app development in the health care field- created an Android app using Oreo to calculate a patient’s risk of getting Breast Cancer

**Kumon (June 2015 – August 2016)** - Primary instructor - teaching Math and English to kids pre-school to 12th grade

* + Cultivated soft skills in leadership and personal interactions
  + Worked one-on-one with children to enhance their reading and math skills
  + Responsible for all duties concerning the inner office including inventory, prepping folders, holds, training new employees, customer service and answering any questions from customers and colleagues

# ACTIVITIES:

## Chase Code for Good October 19th, 2018– October 20th, 2018

* Participated in the Hackathon and developed an app in Node.js to help people with mental health conditions.

## Big Idea Competition October 2017

* Submitted an idea to create a mobile app that would provide video conferencing with speech therapy experts, mouth exercises through games, etc. as therapy to help individuals with speech impairment.

## Reading Partners - Volunteer Jan 2017-August

* Provided one-on-one help to students who are below their reading proficiency grade level.

## UTD - Member of Women Who Compute Aug 2016-Dec 2020

* Collaborate with peers to participate in a variety of volunteer activities and discuss opportunities for women in STEM

## UTD - Member of Artificial Intelligence Society Aug 2016-Dec 2020

* Collaborate with peers to bridge the gap between people's awareness of the world of AI.

## UTD- Member of Association for Computing Machinery Aug 2016-Dec 2020

* Attended several seminars on various ACM topics such as hacking and will participate in Hack UTD

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# HONORS:

* + Graduated from UTD with Magna Cum Laude Honors
  + UTD Dean’s List Multiple Times
  + UTD Honor Society-National Society of Leadership and Success (Sigma Alpha Pi)
  + Lars Magnus Ericsson Scholarship
  + Marcus High School Orchestra Scholarship
  + Graduated high school with Advanced Placement (AP) honors in 2016