

Ranjith Reddy Gaddam

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EDUCATION

California State University, Long Beach, California

Master of Science, Computer Engineering and Computer Science

May 2023

GPA: 4/4

Courses: Advanced Analysis of Algorithms, Advanced Programming Language Techniques, Advanced Software Engineering

SKILLS & CERTIFICATIONS

Programming: Python, C++, C, Java, C#

OS: Windows, Linux

Cloud Technologies: Azure, AWS

Tools: Docker, Kubernetes, Git, SSMS, Visual Studio

Web Technologies: Html, CSS, RestAPI

Other: Word, PowerPoint, Excel

Database: SQL, MySQL, PostgreSQL, MongoDB

Certification: NPTEL (C, C++, Python, R)

Web Frameworks: Django, Flask

PROFESSIONAL EXPERIENCE

Teaching Associate - Data Structures

Jan 2023 – May 2023

CECS Department, CSULB

- Supplementing students' learning of core concepts pertaining to data structures and algorithms.
- Created & graded lab assignments for students with feedback on improving code efficiency.
- Hosted office hours to debug & review codes for students.
- Working with professors to automate grading workflow using the Google Sheets and Canvas APIs.

Software Engineer

Aug 2020 – Dec 2021

FactSet Research Systems Inc, Hyderabad, India

- Worked on developing and maintaining a software system that provides solutions in integrating financial data and analytics.
- Built a client-facing API called 'Holiday Management' which allows clients to fetch holidays (both history and future) for stock market indices.
- Setup infrastructure and developed Python-based automated jobs for data collection and storage.
- Contributed to back-end automation team in improving processes to real-time database operations.

Software Engineer Intern

May 2020 – Aug 2020

FactSet Research Systems Inc, Hyderabad, India

- Worked on ETL (Extract Transform Load) related processes.
- Developed and maintained a python-based internal tool named 'Benchmark Editor' which helps in manipulating vendor data before storing it in a client-facing database.
- Built scripting tools that automate integration of new products resulted in a reduced engineering workload and increased productivity.
- Designed and implemented a job queueing service that allows handling multiple processes from a limited resource.

Software Developer Intern

Apr 2019 – Aug 2019

Talent Excel, Mumbai, India

- Collaborated with senior members to develop a campus navigation app that offers the most efficient route to desired destinations.
- Implemented Django framework to create Python-based backend services for positioning, navigation, and notification delivery.
- Designed a fault-tolerant mobile application that communicates with a MySQL relational database through a REST API.
- Utilized Flutter and Firebase to create user-friendly interfaces and deliver high-quality solutions.

ACADEMIC RESEARCH AND PROJECTS

BugHound (Python, Flask, MySQL) ([GitHub](#))

Feb 2023 – Apr 2023

- Built a python flask-based web application as a part of my academics.
- The core idea of this application is to allow employees of a company to report, assign, fix and test a bug in the project.
- Integrated this application with MySQL database in the backend.
- My responsibilities in building this application include developing both backend and frontend.

Inventory Management System (Python, MySQL) ([GitHub](#))

Jan 2022 – May 2022

- Built a python application, to manage an inventory system digitally, as a part of my academics.
- This application helps in keeping track of sales and availability of items in the inventory.
- Integrated this with MySQL database in the backend.
- Developed the backend and was responsible for both unit testing and integration testing.

Malicious URL Detection using Machine Learning (Python, Machine Learning) (GitHub)	Dec 2020 – April 2021
<ul style="list-style-type: none"> • Built a Machine Learning model in python to detect unsafe URLs and achieved an accuracy of 92 percent. • Various attributes like URL length, domain is extracted from the URL and are passed to the model running on the Naive Bayes algorithm. • Developed a user-friendly Chrome extension upon this model. 	
College Cart (Python, Django) (GitHub)	Aug 2020 – Dec 2020
<ul style="list-style-type: none"> • Developed an application to create a common space for students from our college to exchange their used products. • Used Django's MVC framework and PostgreSQL database in the backend. 	
College Forum (Java, MySQL) (GitHub)	Dec 2019 – Apr 2020
<ul style="list-style-type: none"> • Built a Java-based application to enable students within our college to clarify their queries. • Implemented Java's Remote Method Invocation technology in the backend. • Integrated the application with MySQL database. 	

PUBLICATIONS

Early Prediction and Analysis of Corona Pandemic Outbreak using Deep Learning Technique	March 2021
<i>World Journal of Engineering</i> (Link)	
<ul style="list-style-type: none"> • The purpose of this paper is to analyze and build a deep learning model that can furnish statistics of COVID-19 and is able to forecast pandemic outbreak using Kaggle open research COVID-19 data set. • This research work presents a fine-tuned LSTM deep learning model using three hidden layers, 200 LSTM unit cells, one activation function ReLu, Adam optimizer, loss function is mean square error, the number of epochs 200 and finally one dense layer to predict one value each time. • Accuracy achieved using this model is 94% 	
Machine Learning Based Approaches for Efficient Detection of Malicious URLs	March 2021
<i>International Journal of Computer Engineering and Applications</i> (Link)	
<ul style="list-style-type: none"> • This paper presents different machine learning models for detecting and classifying various malicious URLs. • The models used in this paper are Random Forest, Artificial Neural Networks and Support Vector Machine. • Accuracy achieved in this paper is 92%. 	

ACHIEVEMENTS

- Tournament winning captain for CBIT undergrad's cricket team.
- Secured 2726th rank among 130000 students in Engineering entrance exam (TS- EAMCET 2017).
- Solved 1600+ problems on leetcode and one among the top 3% contestants in global contests ([Link](#)).