

NAIYA SHAH

Curious to learn and apply my skills in solving real life problems

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EDUCATION

University of Southern California (3.90 GPA)

January 2020 - December 2021

Masters of Science (M.S.) in Computer Science

Coursework: Analysis of Algorithms, Database systems, Advanced Mobile Devices and Game Console

LDRP Institute of Technology and Research

2015 - 2019

Merit based scholarships for two consecutive years

Coursework: Data Structure and Algorithms, Database Management, Web Development, Artificial Intelligence, Operating System, Software Engineering, Mobile Application Development, Natural Language Processing

WORK EXPERIENCE

Software Developer Intern, Finbyz Tech

Dec 2018 - Apr 2019

- Developed a web application for **Automated Trading**, which enabled analysts to build, test and deploy dynamic algorithms real time in the live stock market.
- Added optimizations to allow faster testing of their algorithms on large historic datasets within seconds using technical indicators and efficient data retrieval
- Introduced REST API support for executing trades using Kite API.

Frappe (Python, JS, MariaDB),
NosSQL(MongoDB),
REST APIs, plotly, d3.js

Software Developer Intern, Roars Inc.

Aug 2017 - Nov 2017

- Developed android mobile application enterprises to easily manage daily tasks like inventory handling, accounting and stakeholders' data
- Integrated with Microsoft's Power BI to provide visualization insights for enterprise

Java, Ionic framework,
Android

TECHNICAL SKILLS

Languages	C, C++, Core Java, Advanced Java, SQL, Python, C#
Web Technologies	HTML, CSS, JavaScript, XML, PHP
Technologies & Frameworks	Bootstrap, Android, React, Django, Frappe, Spark
Databases	MariaDB, MongoDB, Firebase, MySQL, PostgreSQL
Tools and Technologies	MS Excel, MS Word, MS Powerpoint, Eclipse, Android Studio, Unity

RELEVANT PROJECTS

IOT based Automated Parking System

- Developed a mobile application on android platform as a solution to increased parking problems.
- The authorised user has to scan the QR code available at the entry and exit of the parking areas. As soon as the authorised user scans a particular parking area QR code, it opens the gate automatically which is controlled by Nodemcu via Firebase.
- Integrated with payment gateways to calculate cost based on parking timings

Java, Android,
Nodemcu, Arduino,
Firebase,
Internet of things

Text and Social Network Analysis

- Collaborated with a team on this project under direct supervision of **Dr. O'Leary**, Professor from **USC Marshall School of Business** and **Dr. Keith Burghardt** from **Information Sciences Institute, USC**.
- Scrapped and mined the data using sentiment analysis based on Natural Language Processing from a crowdsourcing platform called IdeaJam to understand how emotion drives the actions on such platforms.

Python, Scrapy,
Beautiful Soup,
NetworkX, Vader,
MongoDb

Corporate Clash

- Worked with **Advanced Game Processing team, USC** to build a prototype of the mobile based game - 'Corporate Clash' - a business world game one like Simcity.
- Planned, designed and built the game for IOS as well as Android platforms. Applied the concepts of resource management and knowledge of different data structure and algorithms to make it more efficient.

Unity, C#

HACKATHONS

Smart Gujarat for New India Hackathon 2017-2018, Team size - 5, Role - backend development

- Reached the final round of Top 10 teams selected from 500 teams in Education Department
- Developed algorithm to automatically allocate rooms to students based on complex factors like campus proximity, grades, social criteria like cast reservation system, economic background
- Designed Hostel Management System one stop solution for matching students and hostels

HTML, CSS,
PHP, MySQL,
JavaScript