Dhruval Shah

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Education

California State University - San Marcos, United States	GPA- 3.52/4.0	California, United States
Master of Science in Computer Science		May 2021

CHARUSAT University, India	GPA - 3.35/4.0	Gujarat, India
Bachelor of Technology in Information Technology		May 2019

Skills

Core Competencies: Data Structures, Algorithms, Software Engineering, Distributed Systems, DevOps, Full Stack Development, Cloud Computing, Operating systems, Machine Learning, Deep Learning, NLP

Programming Languages: Python, Java, C, C++, R, MATLAB, JavaScript

Databases & OS: MySQL, MongoDB, SQLite, Joomla, Linux, UNIX

Web Technologies: Servlet, JSP, Apache Tomcat, Hibernate, Spring, NodeJS, AWS, GCP, Spring Boot, Hibernate, Apache Kafka, ReactJS

Professional Experience

Summer Research Intern , Cal State - San Marcos, CA   June 2020 – Aug 2020

- Performed Twitter based sentiment analysis to determine the winner in 2020 US elections.
- Used GOT3 API to fetch the old tweets and did sentiment analysis by training a model using Long-short term Memory (LSTM). The trained model predicts sentiment with 93.48% accuracy.

Software Engineer, MLveda, India   May 2018 - May 2019

- Developed Machine Learning application to recommend food items using available ingredients.
- Performed multi-variate linear regression and K-Means clustering to recommend food items made from the list of available ingredients.
- Recommend similar food items based on the food searched by user by comparing the ingredients in other food items.
- Developed website using Spring Framework and Hibernate in Java which enables Alexa to automatically generate form based on user inputs.
- Created AWS Lambda function for sending the user input to the web application.
- Deployed website on AWS EC2 and stored forms returned by web application in AWS S3.

Software Developer Intern , Softvan, India   Dec 2017 – March 2018

- Developed an e-commerce website for the apparels using SpringBoot Framework in Java.
- Created APIs for fetching the apparels based on the user request, integrated payment gateways seamlessly, integrated Login APIs of Facebook and Google and integrated the Twilio API for sending One Time Password(OTP) to the mobile phone.
- Developed user interface using ReactJS and handled cross browser compatibility issues using ReactJS.

Academic Projects

Smart Bell (**GCP — Firebase— Android — Cloud Vision API**)   Fall 2019
- Developed an Android application using Android things and connected it with front-door camera. The trained model works with 98% accuracy.
- Owner can allow or deny access to the person trying to enter the apartment which is achieved by using Firebase to get a live footage access.
- Trained model using Cloud Vision API to allow access to family members or close friends permanently.
- Integrated Google Calendar with the Android Application to reschedule a meeting with person who has been denied entry initially.

Profitable Trashcan (**Arduino — Python — Biometric SDK — MySQL — Cloud Vision API**)   Spring 2018
- Created a trashcan with Arduino and Biometric SDK for collecting Biometric information of the user.
- Used Cloud Vision API to train the model which predicts whether the trash is disposable or not.
- Stored the Biometric data of the user in MYSQL.
- Created a point based system for giving credits to user throwing proper disposable waste in the trashcan.

Text Encryption with Image (**C++ — PHP — JavaScript — MySQL**)   Fall 2018
- Developed Desktop application using C++ which takes texts as input and allows users to select any image file and encryption algorithm
- Encrypted text using the algorithm selected by the user and embeds into the image without compromising the image quality
- Developed decryption process using the image file and the algorithm provided by the user which results in the plain text on successful decryption or leads to deletion of the image
- Developed a web version in PHP as an alternative to Desktop application

Students portal (**Java — Spring — DigitalOcean — MySQL**)   Fall 2018
- Developed web application in Spring boot Framework in Java through which students can upload and share their notes and reading materials.
- Used DigitalOcean's droplet to host the web application and integrated Mailchimp's services for email verification of new users.

Certificates

- Game Theory, Data Science in Python(Specialization) from Coursera.
- Design Analysis, Algorithm and Relational Algebra from Stanford
- Predictive Modeling and Fundamentals from Big Data University
- Google Analytics from Google
- Cybersecurity Reference Architecture, Cloud Computing and Java Programming from Microsoft Virtual Academy.