Savio DCosta

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EDUCATION

Santa Clara University

Master of Science in Computer Science
University of Mumbai
Bachelor of Engineering in Computer Science

Santa Clara, CA, USA 2021/09 - 2023/06 Mumbai, Maharashtra, India 2016/08 - 2020/08

SKILLS

Programming: Java/J2EE, Python, C/C++, HTML, CSS, Javascript, jQuery, Typescript, Dart, SQL, NoSQL

Web Frameworks: Flutter, Express, Node.js, React.js, React Native, Spring Boot, JSP

Databases: Oracle Databases, Firebase (Authentication, Firestore, Storage), MySQL, MongoDB, SQLite **Cloud Platforms:** AWS (EC2, S3, Route 53, EKS), Google Cloud Platform (GCP), Docker, Kubernetes **Other Tools:** Git, Github, Bitbucket, Confluence, JIRA, Wireshark, Sonarqube, Postman, Adobe XD, Figma

EXPERIENCE

SCU Frugal Innovation Hub

Santa Clara, CA, USA

Software Engineer

2019/09 - Present

- Spearheaded the development of a cross-platform, accessibility-focused resource application for an NGO
 aiding individuals with disabilities, utilizing Flutter and Firebase (Firestore, Storage, Authentication).
- Engineered CRUD API endpoints, integrated with Firebase Database and Google Cloud Functions, to ensure robust data validation and secure authentication mechanisms.
- Allowed users to filter content based on resource categories and specific disability types. Also implemented functionality for employers to add and edit resource information for users to view.
- Incorporated Google Maps API, enabling users to visualize and locate resources geographically.

Lightning Motorcycles

Hollister, CA, USA

Software Engineer

2022/06 - 2023/01

- Led the development of a cross-platform mobile app using Flutter, allowing seamless communication between motorcycles and users on iOS, Android, and web platforms.
- Designed and implemented user-friendly portals for both administrators and users, utilizing Firebase Authentication, Firestore, and Google Cloud Functions for secure and efficient data management.
- Created and maintained various CRUD API endpoints to trigger specific Google Cloud Functions for data validation and authentication.

Honeybee Tech Solutions

Mumbai, Maharashtra, India

Software Engineer

2020/08 - 2021/08

- Developed a web-based Grievance Handling and HR Management system using JSP, Bootstrap for the front end, and OracleDB on the backend.
- Utilized Java, jQuery, and AJAX to support dynamic web flows and improve user experience.
- Optimized performance by creating indexes on API queries, resulting in a 60% reduction in load time.
- Integrated SonarQube, to address code smells, resulting in better software production discipline and quality.

Revitech Infosolutions

Mumbai, Maharashtra, India

Data Analyst Intern

2019/03 - 2019/07

- Developed a tool that helped with data cleaning and preprocessing of files greater than 15GB.
- Worked on running various machine learning algorithms to provide valuable insights and trends.

PROJECTS

Responsive Portfolio App using ReactJS

2023/10 - 2023/11

- Developed an advanced portfolio web application utilizing ReactJS, showcasing a responsive and interactive user interface.
- Created a custom API to store resume data which would be used to fetch data from the API to the app dynamically.
- Worked with Material UI, styled-components, state, forms, and EmailJS for recruiters and/or collaborators to contact me via email.

Twitter-Like Distributed Microblogging Platform

2022/09 - 2022/12

- Engineered a Twitter-like distributed microblogging platform using Python, showcasing proficiency in real-time social media interactions and scalable data management.
- The platform featured socket programming for effective server-client communication and an SQLite database for data persistence. Key modules in the system handled users, tweets, followers, groups, and updates.
- Emphasized scalability, concurrency, and fault tolerance, utilizing multithreading for enhanced process performance.

Smart Cradle System using ESP32 and Firebase Realtime Database

2021/12 - 2022/02

- Led the design and development of a smart baby cradle system, utilizing the ESP32 microcontroller and various sensors to monitor the baby and the environment inside the cradle.
- Constructed a user-friendly web interface using HTML5, CSS3, and jQuery, providing real-time monitoring and control of the cradle through Firebase Database web API.
- Deployed the web app on an AWS EC2 instance, utilizing an Apache server for user login and access to the baby's status and cradle control features.

Business Review System using Spring Boot and OracleDB

2021/09 - 2021/11

- Led the design and implementation of a Business Review System, a user-friendly platform that allows users to discover, rate, review businesses, and connect with companies of all sizes.
- Built a web-based user interface using Javascript, jQuery, and AJAX, providing a seamless user experience.
- Established and exposed various CRUD API endpoints to perform tasks such as data validation, extraction, and retrieval for efficient data processing and querying.

Network Intrusion Detection and Prevention System using ML

2019/05 - 2020/05

- Built an Anomaly Detection (AD) System using decision trees and random forest algorithms to detect
 anomalous behavior in a network connection. The algorithms were trained using a cyber defense dataset of
 approximately 1 million network packets under controlled cyber attacks.
- Attributes of the network connection such as packet size, the number of packets, connection type, packet type, and so on were extracted using Wireshark and fed into the AD system model for processing.
- Successfully detected attacks such as Botnet, Heartbleed, DoS/DDoS, and Infiltration attacks.
- Malicious connections would be dropped, and the connection would be blocked.

Placement Prediction System using ML

2028/05 - 2018/07

- Gathered five years' worth of anonymous data of students such as attendance, marks, semester-wise GPA, and CGPA from my institute, and used the K-Means classification algorithm to analyze the data.
- The model acquired more than 80% accuracy and could determine the student's placement and wage tier depending on the student's academic results.

CERTIFICATIONS

Learning Docker (2018) by LinkedIn | Apr 2023 | Credential ID: Acee137PsuEq2tyDIR6IOCEeJ4I8