Sandesh Sobarad

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EDUCATION

California State University, Chico   **Chico, CA**
Master of Science in Computer Science; GPA: 3.7   **August 2021 – May 2023**
Course Work: Data Structures and Algo, Software Design and Maintenance, Applied Machine Learning, Web Development, Algorithms and Computability, Mobile Application Development, Applied Computer Vision.

Visvesvaraya Technological University   **Bangalore, India**
Bachelor of Engineering in Computer Science; GPA: 3.4   **August 2016 – July 2020**
Course Work: Operating Systems, Machine Learning, Data Structures and Applications, Computer Organization, Cloud Computing, DBMS, System Software and Compiler Design, Computer Architecture.

SKILLS

Languages: C, Python, C++, Core Java, C#, JavaScript, Typescript

Database Management: MySQL, MongoDB, Firebase, Sanity

Web Development: React, Vue, Django, .NET, Flutter, HTML/CSS, NodeJS, NextJs, Bootstrap, CI/CD, GraphQL

Others: Git, AWS EC2, GCP, Docker, Rasa Framework, ANN, CNN, Microprocessor/Microcontroller, NLU, Linux OS, Nvidia Jetson Nano

EXPERIENCE

California State University Chico – Chico, CA

Research Assistant   **July 2023 – Present**
- Conducting research on ways to utilize GitHub REST APIs to create integrations, retrieve data and automate workflow for better grading of software engineering projects in school which increases fair evaluation by 50%.
- Currently engaged in the development of a web application using ReactJs, PostgresSQL, Node+Express. Primarily focused on integrating GitHub REST APIs to retrieve repository data resulting in cutting down 60% of the professor's work and time.
- Proficiently utilizing Axios for streamlined JSON parsing, with the goal of creating a responsive frontend with real-time updates.

Creative Engagement Coordinator   **January 2022 – May 2023**
- Proficiently managed and updated the WHC website employing a combination of ReactJs, HTML/CSS, Sanity technologies to ensure its functionality and content remained current and engaging.
- Utilized desktop design software to design and develop brochures, flyers, posters, and social media contents.

Infosys Private Ltd – Bangalore, India

Software Development Engineer   **June 2020 – July 2021**
- Developed interactive and visually appealing user interfaces using JavaScript, HTML/CSS, and jQuery.
- Engineered seamless integration of REST APIs using AJAX, resulting in 40% faster data retrieval and real-time updates, enhancing user experience, and increasing customer engagement.
- Worked closely with cross-functional teams including operations, development, and built feature-rich web application using React.js, Vue.js tailoring solutions to the specific project requirements.

Software Engineer Intern   **January 2020 – April 2020**
- Designed .NET application using .NET Core technologies and leveraged UI tools such as HTML/CSS and Angular to create visually appealing and user-friendly interfaces that enhance user engagement.
- Utilized the MVC architectural pattern to enhance code organization, facilitate parallel development and improve scalability of the project by 45%.

Cognerate Solutions Private Ltd – Bangalore, India   **May 2019 – August 2019**

Machine Learning Intern
- Acquired in-depth knowledge of Deep Learning concepts and artificial neural networks (ANN), including architecture, activation functions, optimization techniques, and regularization methods.
- Led a team of six and designed an algorithm to recognize different 2D shapes and succeeded with 93% accuracy.

PROJECTS

Automated Customer Support Email Service (ACSES)
- Objective is to automate customized email reply using text classification and other ML techniques. Trained a model to recognize the keywords from the client mail and reply to that with an appropriate solution without any human intervention.
- The classification model achieved a flawless F1 score of 1.0 and 96% accuracy score in generating fitting responses.

Home Automation System
- Developed a home automation system using C, Arduino/Raspberry Pi, integrating sensors, actuators, and a user-friendly interface for device control and monitoring, enabling remote access and automation.
- Implemented control algorithms for automation, stored and analyzed sensor data to gain insights into energy usage.

Inventory Management System (MERN Stack)
- Led end-to-end conceptualization, design, and execution of a cutting-edge inventory management application, leveraging the MERN technology stack.
- Ensured scalability and performance by deploying the application on AWS EC2, resulting in enhanced operational efficiency, and streamlined inventory management.