SAKSHAM RAI

s1rai@ucsd.edu, raisaksham2001@gmail.com | (408) – 513 – 5080 | www.sakshamrai.com | linkedin.com/in/saksham-rai4477431ab

EDUCATION

University of California, San Diego
Mathematics – Computer Science, Minor – Physics, Innovation and Entrepreneurship
Oct 2020-Oct2024

- **Provost Honor x 4**: Fall 2020, Spring 2021, Winter 2021, Summer 2022 (awarded for GPA > 3.5).
- **ERC 92 Sophomore Honors Program** (Awarded for securing a GPA > 3.6 and completion of certain lower div. courses.
- **K-Productivity:** Software-service startup, registered with the official UCSD incubator – The Basement.
- **Clubs and Societies**: UCSD Speech and Debate, Rocket Propulsion Laboratory, Engineers for Exploration, CS ForEach.

LANGUAGES/TECHNOLOGIES

Front End: JavaScript, React, HTML and CSS.
Back End: ASP.Net, C#, PHP, Python, Java, C++, phpMyAdmin, SQL
Other Frameworks: Git, GitHub, Android Studio, Junit, Espresso, Robolectric, Figma, Microsoft Office Suit, Unity, Scratch, JIRA.

WORK EXPERIENCE

San Diego Police County, San Diego
Software Engineering Intern   **Nov 2022 – Present**

- Developing the official Harm Reduction Coalition San Diego website on the AWS server to fit the needs of HRCSD Naloxone Distribution Program.
- Utilized CSS, HTML to design the landing page of the website with navigation bars, animations, embedded videos, and other custom functionality. -> https://sdnaloxone.org
- Utilized php to develop a registration system for users and phpMyAdmin and SQL to maintain user information and assign unique IDS for accessing vending machines. Successfully registered 10,000 + users.
- Onboard vending machines into the back end of the website and help provide data dump to UCSD monthly.
- Create QR codes for the vending machines to link to the website for naloxone and other harm reduction services.

BlackLogics, San Diego
Software Engineering/ Web Developer Intern   **Sept 2022 – Jan 2023**

- Utilized **Figma** to create several UI designs for a landscaping website including designs for landing, contact, product page, etc.
- Utilized HTML, CSS, and JavaScript to develop interactive front-end themes including rotating company logo, blurred background videos and added existing templates from CodePen to the company website.
- Significantly increased order frequency for landscaping and product sales (such as soil, gravel, sod etc.,) on a weekly average.

UCSD Information Technology Services
Oracle Cloud System Architect   **Sept 2022 – Dec 2023**

- Utilized EPBC Dashboard and Reports to plan and authorize budget for several UCSD ventures for the current financial year.
- Utilized Groovy language to develop scripts to do budget calculations, form data maps and propagate intercube pushes.
- Used Jira to create/resolve issues and epic for creating ramp-up trainings for other employees, team meetings, etc.
- Utilized EMP Automate Batch Scripts to encrypt passwords to be referenced by other files, updating existing version of Oracle EPM Automate, etc.

CS Early Start, CS Foreach,
San Diego **Project Flock, Web Developer/Team Co-Ordinator**   **Jan 2022 – June 2022**

- Collaborated with a group of 5 students in developing an event-management web application that utilized UI design fundamentals of HTML, CSS**,** and JavaScript.
- Utilized stream API from https://newsdata.io to fetch information about recent festivals and events and used Postman application to run end-to-end API testing.
- Utilized MySQL to maintain a user-input data base and utilized Python queries for fetching data to be used as a search filter. Collaborated with Staff – Coordinator and team members for the timely completion of project deadlines set on weekly team meetings.

RESEARCH

- **"Code Cloning Techniques In The Development of Large-Scale Software Systems."** *International Journal of Innovations In Scientific Engineering (IJISE),* Vol 09, Jan-Jun 2019, Paper code: IJISE/46023, e-ISSN: 2454-6402/ p-ISSN:2454-812X
- **"Bio-informatic Techniques in the Early Detection of Cancer."** *International Journal of Innovations in Applied Sciences and Engineering (IJIASE*), Vol 03, Issue 01, January-March 2019, Paper Code: IJIASE/47023, e-ISSN: 2454-9258/ p-ISSN:2454-809X.
- **"Classification techniques in Content – Based Image Retrieval."** *International Journal of Inventions In Engineering & Science Technology (IJIEST)*, Vol 04, January-December, 2018, Paper code: IJIEST/47515, e-ISSN: 2454-9584/ p-ISSN:2454-8111

RELEVANT PROJECTS

Social Compass, Android Application

- Developed an Android application using Java and UCSD location API in Android Studio, that allows users to register and find friends on a radial compass UI that changes dynamically with movement.
- Utilized Junit and Robolectric frameworks for unit testing and Espresso for UI testing.
- Utilized SQL for updating remote database with longitudes, latitudes, usernames, relative distances etc.
- Utilized Database Access Object to perform persistence operations of adding, deleting, updating location of users.

Breaking Bad Trivia Web-Application

- Utilized CSS, HTML, JavaScript and React hooks to create a responsive character trivia web application that allows for character search functionality.
- Utilized API from www.breakingbadapi.com to fetch character and actor names, images, status in show, birthdate and other data.
- Utilized the Netlify implementation to deploy the application on a remote server -> https://bcharb.netlify.app.
- Modified the dependencies in json script for successful build and deployment of the application.