

# BENITA REGO

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## EDUCATION

### Master of Science, Computer Science and Engineering

*Expected June 2023*

Santa Clara University – Santa Clara, CA

*Courses: Design & Analysis: Algorithms, Mobile App Development, Network Technology, Wireless & Mobile Networks*

### Bachelor of Engineering, Computer Engineering

*August 2017 - June 2021*

University of Mumbai – Mumbai, India

*Courses: Data Structures, Database Management Systems, Machine Learning, Object Oriented Programming*

## EXPERIENCE

### Intuitive Surgical, Inc.

**Sunnyvale, CA**

Software Engineer (Internship)

*June 2022 - Present*

- Working on development of the lighthouse application oriented towards time scheduling and booking of labs on campus.
- Currently building features using React- Query, Router with Table, Chakra-UI and Vite.

### SCU Frugal Innovation Hub

**Santa Clara, CA**

Student Developer (Part Time)

*February 2022 - June 2022*

- Working in a team of 3 on apps using Android, Flutter and React with local storage to work on internet free environments.
- Designed wireframes using Figma to provide overview of the user interaction and specify the material components of the apps.

### Stack Nation

**Chennai, India**

Mobile Application Developer (Internship)

*June 2020 - July 2020*

- Created a Flutter app, similar to Handshake for college students and companies that significantly improved the hiring process by 70%, stored in Cloud Firestore and authentication in Firebase.
- Structured the layouts along with implementation and documentation for improvement in the performance of the application.

## PROJECTS

### WorkIt - Health and Fitness Application

*November 2021*

- Developed an Android Java app with animation that tracks health and detects food items using OpenCV with efficiency of 91.3%.
- Constructed a fitness tracker, stored in Realm local db and Firebase, suggesting gyms in map integrated using Google Maps API.

### Social Media Analysis for Mental Health Evaluation

*May 2021*

- Designed a Flutter app that analyses users' mental state utilising social media API using Deep Learning CNN model integrated using Flask which gives an accuracy of 89.28% and negative alerting using Twilio with Firebase storage.
- Created a medical chatbot using DialogFlow with 100% efficiency, further showing medical services using Google Maps API.

### Human Action Recognition Application for House Monitoring

*April 2020*

- Devised a Bootstrap-built web application that detects individuals living at their residence, for any suspicious behaviour using OpenCV, alerting person monitoring on WhatsApp with Twilio, from anywhere, recording activities with 81.28% accuracy.

## SKILLS

### Languages

Java, Python, C, Dart, HTML, CSS, JavaScript, Kotlin

### Web & Mobile App Technologies

Flutter, Android - Testing & Frameworks, React, Vue.js, Material-UI, Bootstrap, Flask

### Databases

SQL, SQLite, NoSQL (Firebase), PHPMyAdmin, JDBC

### Platforms/Tools

Android Studio, Figma, Git, Postman, Microsoft Office, REST API, ML, OpenCV

### Soft Skills

Effective Planning, Flexibility, Public Speaking, Leadership, Creativity

## LEADERSHIPS AND INVOLVEMENT

- **Published a technical paper** - Benita Rego, Nolita Rego, Mohit Kunder, "Social Media Analysis for Mental Health Evaluation" *IJRASET*, ISSN: 2321-9653, pp. 1453-1460, Volume 9 Issue IV Apr 2021 <https://www.doi.org/10.22214/ijraset.2021.33962>
- **Conducted Workshop** - *Flutter: Mobile App Development* for High School Students in Santa Clara, CA.
- **Mentor** for UnScript 2022: National Level Hackathon, India
- **Public Relations Head & Webmaster** - CodeLabsCRCE
- **Built various systems** during DMCE Hackathon, (Internal) Smart India Hackathon 2020, Synergy Hackathon