

# KUNAL SHAH

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## EDUCATION

### San Francisco State University

Master of Science, Computer Science

Coursework: Artificial Intelligence, Analysis of Algorithms, Data Mining, Mobile Application Development, Web Technologies

Expected May 2021

Cumulative GPA: 3.73/4.0

### Dharmsinh Desai University, Nadiad

Bachelor of Technology, Information Technology

July 2015 - May 2019

Cumulative GPA: 3.25/4.0

## TECHNICAL SKILLS

<b>Programming Languages</b>	Python, C, C++, Java, Swift, Kotlin, ReactJs, HTML, CSS, AJAX, PROLOG, JavaScript
<b>Databases</b>	MySQL, NoSQL (MongoDB), SQLite, Firebase, DynamoDB
<b>Framework</b>	React-Native, Android, iOS, AWS website hosting
<b>Miscellaneous</b>	Microsoft Office, Git, Bitbucket, JIRA, Bootstrap, AngularJs, jQuery

## WORK EXPERIENCE

### SOFTWARE DEVELOPER INTERN | Dataone Innovation Labs, Ahmedabad, India

Dec 2018 - May 2019

- Learned React-Native and React and worked on small applications to understand frameworks.
- Developed a cross-platform mobile application "Community Social" using React-Native and Firebase to connect people with similar religious beliefs.
- The application contains Address Book, Blood Bank, Matrimonial, Business profiles and many more features.

### GRADUATE TEACHING ASSISTANT (Python) | San Francisco State University, San Francisco, USA

Jul 2020 - Jan 2021

- Instructor for Computer Programming using Python, offered by College of Extended Learning, where teachers from various schools can learn computer programming to incorporate it in their teaching.

### GRADUATE TEACHING ASSISTANT (AI) | San Francisco State University, San Francisco, USA

Aug 2020 - Present

- Teaching assistant for Artificial Intelligence course focusing on topics like problem-solving methods, heuristic search, game playing, agent architectures, machine learning, and sections from knowledge representation, symbolic reasoning, computational models of virtual humans, neural networks, and genetic algorithms.

## KEY PROJECTS

### Physical Mobility Assessment App – (iOS, Swift, Cardinal Kit, Research Kit, Care Kit, Health Kit, Google Firebase) | [Github](#)

- Developing an mHealth iOS application to collect patient's health data using Surveys and Activities to gather information to diagnose any problems or improve patient's health lifestyle in general.
- The data retrieved from surveys and activities of the app is stored on cloud storage technologies like Google Cloud – Firebase/Fire-store and Google Cloud Storage taking advantage of its security and data privacy.
- Contributing to Stanford's Cardinal Kit framework for post processing of Active Motion Tasks and develop a complete end to end Data pipeline to store the data in Google Cloud Firebase.

### First Responders Voice Assistant (Android Studio, Xcode, Dialogflow, GCP, Google Assistant) | [Demo](#)

- Developed a hands-free voice assistant "Simba Police", specially designed for first responders to connect with the force, call for backup, fetch important details such as DMV details, medical details and criminal records.
- Multi-platform support on mobile app, phone call and text messages based on the user requirement.

### Animal Welfare Analysis (Python, Jupyter Notebook, Google Colab)

- Collected and performed Data Analysis on Animal Shelter data to determine ways to efficiently allocate resources decreasing the probability of them being euthanized.
- Performed Data Cleaning, Feature Extraction, Data Visualization and implemented various models: Naïve Bayesian, Random Forest, Linear SVM and Neural Network followed by comparative analysis to achieve maximum accuracy.

### Find Meritorious Students (PhpMyAdmin, PHP, AWS, MySQL) | [Github](#)

- Designed a web-app that handles data of a million high school students across state
- Defined a point system to find meritorious students based on achievements, age, etc.
- Made a dashboard to search using specific criteria for specific results

## AWARDS AND HONORS

- **Winner** - San Francisco State University Innovation Pitch competition 2020, judged by entrepreneurs from Bay area. [\[Link\]](#)
- **National Award Winner** - Ranked in **United States Top 25**, Tech to Protect Challenge: Codeathon hosted by NIST, PSCR, FIRSTNET. [\[Link\]](#)
- **Winner** - Regional round and **Finalists** - National round of the SSIP SMART INDIA HACKATHON 2017. [\[Link\]](#)
- **All India Rank 40** in National Creativity Aptitude Test, INDIA. (NCAT). [\(NCAT\)](#)