MANALI G GHARE

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EDUCATION

University of North Carolina at Charlotte, Charlotte, NC **May 2020**
Master of Science in Computer Science, GPA: 3.83

Pune University, Pune, India **May 2017**
Bachelor of Engineering in Computer Engineering

TECHNICAL SKILLS

Programming Languages: Swift, Java, JavaScript, C, C++, SQL, Python, PLSQL
Web Technologies: HTML, CSS, Node.js, Express.js
Databases: MySQL, MongoDB, MS Access, SQLite, Amazon RDS, realm
Tools & Services: Android Studio, Eclipse IDE, XCode, Firebase, Postman, AdobeXD

WORK EXPERIENCE

IOS developer Intern, Amissa, Charlotte, NC **June 2019 – Aug 2019**

- Built an IOS Application for Alzheimer's patients where the caretaker can track patient's location, set geofence region, get notified if patient leaves geofence region and monitor patient's health.
- Utilizing Apple's Core Location to obtain patient's geographic location and Haversine distance formula to check if the patient is in the geofence region.
- Notifications are handled by Apple push notification service (APNs) with firebase cloud messaging.
- Collaborated with the team using Kanban board to follow agile development process.

PROJECTS

Web applications, University of North Carolina at charlotte **Jan 2019 – Dec 2019**

- **Book Cave:** Developed a website for avid reader where user can explore books, share his/her work and give rating.
  Followed MVC (Model View Controller) architecture for easy modification and scalability. Webpages are designed using HTML5, CSS and Bootstrap. User data and book details are stored in MongoDB.
  Node.js is used as server-side environment for dynamic page content and Express.js is used to handle HTTP requests.
- **Travel Website:**
  - Travel Website API: Implemented user authentication using JWT (JSON Web Token). The API has endpoints for getting city, places and food places. This API is deployed on Heroku.
  - Travel Website: Uses above API to create website where user can search city and get information of popular places and cuisines of that city.

Android applications, University of North Carolina at Charlotte **Aug 2018 - Dec 2019**

- **Chatroom with Ride Sharing App:** Uses Firebase Realtime database and storage features to store the pictures and messages shared in the chatroom. User can join chatroom or create new one. In the chatroom user can request a ride and can share current location using Google Maps.
  It uses GSON, OkHTTP, PrettyTime libraries and shared preferences to store sessions.
- **Smart Grocery Store:** Uses Bluetooth Beacons to provide indoor proximity information in a grocery store. Estimote Bluetooth beacons are used to provide list of discounted products from the aisle closest to the user. Application is using Braintree payment API to process payments.
- **Smart BLE Bulb Android Simulator:** Android application which connects with smart BLE bulb to read or change the characteristics such as bulb, beep and temperature.
- **Trip planner:** Enables user to plan trip to any city in USA. It uses Google Map to provide the list of tourist attractions in a two-mile radius of the selected city.
  Application uses Google Authentication for sign up. It uses reverse geocoding to transform address into latitude and longitude to store into firebase database.
- **News Application:** Displays news feeds from Buzzfeed News API. JSON data from API call is parsed using AsyncTasks.
- **Multipurpose Health Application:** Implemented an application which incorporates multiple facilities of health care system such as Nearest hospital locator, Calorie meter, and Medication management.
  GPS tracking technology is used for finding hospitals in the close vicinity while distance between hospital and patient is calculated by haversine formula. Information related to patient was stored into SQLite database.
  Published Technical papers related to project in International Research Journal of Engineering and Technology (IRJET).