

Manali Ganesh Ghare

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EDUCATION

Master of Science, Computer Science , University of North Carolina at Charlotte	GPA: 3.90	May 2020
Bachelor of Engineering, Computer Engineering , Savitribai Phule Pune University	GPA: 4.00	June 2017

TECHNICAL SKILLS

Programming Language: Java, JavaScript, Swift, C, C++, SQL, PL/SQL, Python

Web Technologies: HTML, CSS, Node JS, Express JS, Angular JS, React JS, Axios, Bootstrap

Tools: Android Studio, XCode, Firebase, MySQL Workbench, Eclipse IDE, Postman, Kanban Board, Adobe, GitHub

Services: Firebase, AWS-EC2, S3, RDS, Azure Bing Image Search API, Digital Ocean, Heroku

Databases: MySQL, MongoDB, MS Access, SQLite, Realm

WORK EXPERIENCE

iOS Developer Intern, Amissa, Charlotte, USA **June 2019 – Aug 2019**

- Built an iOS application for Alzheimer's patients where the caretaker can track the patient's location, set the geofence region, get notified if the patient leaves the geofence region and monitor the patient's health.
- Utilized **Core Location** framework to calculate the patient's location accurate up to 10 meters.
- Firebase Cloud Messaging (FCM)** to achieve high notification throughput, 250ms delivery time for 95% of the notifications.
- Maximized team efficiency using the **Kanban** process for **Agile** development.

Software Engineer, Bolt Technologies, Pune, INDIA **Sept 2017 – Aug 2018**

- Developed Android applications in healthcare, lifestyle, and fitness domain with supporting **REST APIs** to fetch and modify data.
- Designed and maintained dynamic web pages using **HTML** and **JavaScript**.
- Delivered high quality software using iterative development processes in an end-to-end software cycle, starting from requirements analysis to deployments.

PROJECTS

Web Applications

Travel Website

[Node.js, MongoDB, HTML5, CSS]

- Developed a full stack web application using **Node.js** with **Express.js** framework for routes handling and **axios** for handling HTTP requests.
- Published well-documented **RESTful API** endpoints to perform CRUD operations on the data stored in **MongoDB Atlas** database.
- Secured the application using **JWT** for user authentication and authorization ensuring password encryption using the **bcrypt** library.
- Hosted the application on a **Heroku** Dyno as a part of the deployment process, along with the API documentation.

Book Cave

[Node.js, MongoDB, Bootstrap, HTML5, CSS]

- Designed a dynamic website using **MVC** architecture with session management and user authentication with **Node.js** and **Express.js**.
- Enriched the website using **Bootstrap** for making it responsive and **Embedded JavaScript** templating for handling dynamic content.
- Stored the data in **MongoDB** and used **Mongoose ODM** for defining and manipulating the data for operations and front-end consumption.

Mobile Applications

Chatroom with Ride Sharing App

[Java, Google Maps SDK, Firebase]

- Designed an **Android** application for real time conversations with ride sharing feature between the chatroom users.
- Used **Firebase Cloud Storage** to store images and **Firebase Realtime Database** to achieve milliseconds synchronization of the messages in real time.
- Integrated **Google Maps** and Google's **Geolocation API** to share driver's live location with the riders.

Smart Grocery Store

[Java, Bluetooth Beacons, Braintree]

- Developed an **Android** application to provide users accurate and context aware list of discounted products with **Estimote Bluetooth Beacons** deployed on aisles in a grocery store.
- Published **RESTful APIs** for user authentication using **JWT**, **Node.js** and **Express.js** and deployed them on an **AWS EC2** instance.
- Processed payments with **Braintree's Checkout UI** ensuring complete security and faster development cycles.

Trip Planner

[Java, Google Maps SDK, Firebase]

- Developed an **Android** application for planning trips using **Google Maps** and added collaboration features to fetch attractions in a 2-mile radius of selected city.
- Integrated **Google SSO** for convenient and secure user registration and authentication.
- Leveraged **Maps API** for **Reverse Geocoding** to transform address into latitude and longitude to store into **Firebase Database** for real time lookup at a later point in time.