

# USMAN NAZ

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## EDUCATION

### University of California, Los Angeles

September 2016 – December 2020

Bachelor of Arts, Linguistics and Computer Science

- Relevant Coursework: Data Structures, Algorithms and Complexity, Linux Labs, Database Systems, Fundamentals of Artificial Intelligence, Python with Applications, Computational Linguistics
- Awards: *Chancellor's Service Award, UCLA Achievement Scholarship Recipient*

## SKILLS

**Languages:** C++, JavaScript, Python, HTML, CSS, SQL

**Technologies:** React.js, React Native, Node.js, Express.js, Git, Linux, Figma

## EXPERIENCE

### Minbar.io

Remote

Software Engineering Intern – Mobile App

May 2021 – August 2021

- Mainly frontend development. Built initial login system to connect with backend services and authenticate users.
- Implemented multi-page registration form in React Native and Typescript with Formik and Yup JS libraries.
- Engaged in Scrum software development methodologies with development team as the projects were scoped and designed, coded, reviewed, and released to potential stakeholders.
- Collaborated with product and engineering teams to articulate technical solutions based on user-defined features.

## PROJECTS

### Recipe Finder

Full Stack Web Application

- Created fully responsive website end-to-end to search through over 300,000 recipes from integrated Spoonacular API based on ingredients from user input.
- Designed and implemented REST API to support users and user favorites with JWT Authentication.
- Utilized React.js, PostgreSQL, Node.js, Express.js, Heroku, Figma.

### ZombieDash

Command Line Video Game

- Developed Zombie Survival Game where player must escape a building, rescue citizens, and eliminate zombies.
- Created NPCs with randomized movement algorithms based on a discrete probability distribution.
- Implemented in C++. Utilized Object Oriented Programming (OOP) principles, STL, Data Structures.

### iLifts

Fitness App

- Built mobile app in React Native to log workouts and track exercise progression as free competitor to premium apps that charge an estimated \$5-50 per month on the iOS/Android marketplace.
- Managed app state and persisted data with MobX to enhance user experience.
- Users can create/save workouts, edit exercises, and cycle between workout plans.

### Gee-nomics

Genetic Data Search Tool

- Created a program to search through and compare millions of DNA bases of bacteria for common illnesses.
- Implement 3 classes in C++ to maintain library of genomes, allow users to search library for specified DNA or SNiP of it and identify genomes with a high percentage of matching DNA with user input.
- Integrated over 100 unit tests with GoogleTest to incrementally add new features and maintain code reliability.

## LEADERSHIP EXPERIENCE

### Academic Mentorship Professional Development – UCLA

June 2019 – June 2020

Mentorship Director

- Guided over 80 first-year students by creating mentor/mentee pairs with upperclassmen to network using a pattern matching algorithm that resulted in 63% more efficiency in task completion than previous year.
- Initiated meetings to train mentors, create comprehensive guides for students, and discuss event planning.
- Organized quarterly academic and social events to improve mentor/mentee communication.