# HARMAN MANKU

# **Software Engineer**

### **EDUCATION**

# University of California, Berkeley

Bachelor of Science - Mechanical Engineering

Berkeley, US 08/2012 - 05/2016

## **EXPERIENCE**

## STANZA | Freelance Fullstack Developer

08/2021 - 8/2022

- Designed and implemented a full stack software solution by taking the client's requirements and producing a Web App for Admin using **React** and a mobile App for users using **React Native**.
- Developed a **GraphQL**-based back-end system using **MongoDB**.
- Interviewed and hired a front-end engineer for the web app, and worked together to create a responsive, user-friendly, and "fun" design which increased admin output by 200%.
- Developed and documented a custom library for streamlined access to the Back End API using easy-to-understand functions, improving development productivity and efficiency by 180%.
- Created a cost-effective app update strategy, enabling seamless updates without any additional expenses, resulting in enhanced features and improved user experience.

# **TOWER RISE | Game Director and Software Engineer**

08/2020 - 5/2023

- Led a multidisciplinary team consisting of an artist, musician, and author in the design and development of a captivating game using **Unity**.
- Demonstrated effective communication and teamwork skills, fostering a collaborative and creative environment that maximized the team's talents and resulted in a polished and immersive game experience.
- Implemented object-oriented programming (OOP) concepts using **C#** to create modular and maintainable code, promoting code re-usability and minimizing technical debt.
- Developed a high-performance compression algorithm that reduced estimated server costs by allowing for efficient data transmission without sacrificing quality or functionality.
- Google Play Link | Apple Store Link

#### **PROJECTS**

# WORDBANK | React, MongoDB, Redux

03/2020 - 01/2021

- Transformed a conceptual idea into a fully functional web application using **React** by leveraging my skills in design, development, and project management.
- Designed and implemented API endpoints to enable CRUD operations, using MongoDB for the Database.
- Utilized Material UI to create a visually appealing and responsive front-end interface.
- Conducted regular testing, including unit tests and integration tests, to ensure the stability, functionality, and compatibility of the web app across various browsers and devices.
- word-bank.netlify.app

# RANKME SOCCER | Android Studio, Java, JavaScript, BootStrap, CSS, HTML

08/2019 - 1/2020

- Designed and developed an Android app for seamless data input, processing, and secure upload to Firebase.
- Built a **Bootstrap** website that retrieved and displayed real-time data from **Firebase**.
- rankmesoccer.web.app

# **OTHER EXPERIENCE**

# Mechanical Engineer

Aether, Spectradyne

Jan 2017 - Jan 2020 San Francisco, CA

# **TECHNICAL SKILLS**

Languages: JavaScript, Java, Python, C++, C#, Matlab, SQL, SASS, CSS, HTML

Developer Tools: Node, Express, GraphQL, MongoDB, Android Studio, Git, Github, ThreeJS, GSAP

Technologies/Frameworks: React, React Native, Redux, React Router, Unity