MAYANK DEVANGKUMAR TAMAKUWALA

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EDUCATION

California State University Long Beach - GPA (3.75/4.00)   **Long Beach, CA**
Bachelor of Science in Computer Science   *Graduated in December 2023*
Relevant Coursework: *Data Structures & Algorithm, Machine Learning, Search Engine Technology, Database Fundamentals, OOP, Software Management and Testing, Advanced C++*

SKILLS

Programming Languages	Python, JavaScript, TypeScript, Java, C++, C, Swift, Kotlin
Database	Amazon DynamoDB, Amazon RDS, MongoDB, PostgreSQL, JPA, MySQL, JSON, XML
Web Development	React.js, Node.js, WebSocket, Socket.io, React Query, RESTful API, HTML, CSS
Frameworks & Libraries	Django, Next.js, React Native, Express.js, FastAPI, Bootstrap CSS, Tailwind CSS
Software/Tool	Git, GitHub, CI/CD, AWS, Matplotlib, Numpy, Scikit-Learn, Pandas, MS Office, JIRA
Certificates	AWS Cloud Practitioner, The Leadership Academy Honors, President's List, Dean's List

EXPERIENCE

Karsun Solutions LLC.   **Herndon, VA**
Software Engineering Intern (Remote)   *May 2022 - August 2022*

- Developed general-purpose software for an **AI/ML** project called **Synthetic Data Portal** that creates fictitious Personal Identifiable Information depending on user input into the multiple user interface views utilizing **Synthetic Data Vault (SDV), the Faker library, ReactJS, AWS, and the Python programming language**.
- Utilized Amazon Web Services to help with project development and **save production time by 35%** by using **S3** for storage, **Cognito** for authentication, and **Amplify** for UI components.
- Collaborated with a **team of 5** and maintain constant communication to finish this project in **5 weeks**.

PROJECTS

FaceFusion   *November 2023 - January 2024*

- Developed FaceFusion, an innovative FaceSwap application with seamless merging of faces from two input images using Insightface's **buffalo_l model** for precise detection, implementing the **inswapper_128.onnx model** for natural blend, color matching, and deploying on **HuggingFace spaces** with an intuitive **Gradio-based** UI in **Python**.

Mock'EM   *May 2023 - July 2023*

- Co-created Mock'EM, an iMessage extension app using **SwiftUI and Swift**, enabling users to send engaging **deepfake messages**. Also, achieved a **#68** ranking in the App Store's Entertainment category within a 2-month timeline.

WordDangler   *January 2023 - May 2023*

- Co-developed WordDangler, a multiplayer hangman game with real-time messaging using **ReactJS, DaisyUI, Tailwind CSS (frontend), and Express JS, Socket.io (backend)**, and worked collaboratively on features like **lobby system and game mechanics**.

CheaperEater   *August 2022 - May 2023*

- Developed a comprehensive food delivery price comparison app for popular services (GrubHub, DoorDash, UberEats, Postmates) using **React Native with tailwind-rn** for the frontend and **Express JS** for the backend, enabling seamless user experience. **Reverse engineering methods** to clone and fetch data from delivery service APIs for accurate, real-time pricing comparisons has been implemented

Automobile Price Prediction   *March 2023 - May 2023*

- Created a sophisticated auto price prediction system employing diverse **ML regression models like Gradient Boosting, SVR, Random Forest, etc.** and normalization methods like **PCA, and K-fold validation**. Analyzed results with metrics and visualization like **F1 Score and correlation matrix** using **SciKit-Learn and Jupyter Notebook**.

BeachMuse   *November 2022 - February 2023*

- Developed a collaborative music exploration website for the **2023 BeachHacks hackathon**, featuring a shared queue for adding songs, with reusable front-end components built using **JavaScript, ReactJS, ExpressJS, MaterialUI, and Spotify APIs**, while successfully leading a 7-member team to complete the project in 4 months.