Karma Gyalpo

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EDUCATION

San Francisco State University   **San Francisco, CA**
Bachelor of Science in Computer Science   Aug 2022- June 2024

- **Relevant Coursework:** Data Structures | Analysis of Algorithms | Introduction to DataBase | Operating System | Software Engineering | Artificial Intelligence (AI) | Machine Learning | Probability & Statistics

WORK EXPERIENCE

Hydrated Company   **San Francisco, CA**
Software Engineer Intern   Oct 2024 - Dec 2024

- Maintained and enhanced features for SaaS-based cross-platform applications using React Native and Supabase.
- Assisted in designing and implementing web application components, improving user functionality and performance.
- Collaborated with product managers and designers in an Agile environment to translate business requirements into technical solutions, delivering 100% of features within sprint deadlines.

Reality AI   **San Francisco, CA**
Artificial Intelligence Engineer Intern   April 2024 - June 2024

- Led the creation of an Open source tool called DynamoCards using the Semantic Extraction Algorithm (SEA) to parse YouTube transcripts, enhancing study habits and classroom instruction.
- Designed Gemini Flights, a conversational platform powered by Google's Gemini LLM, enabling natural language flight search and booking, with real-time backend interaction.

PROJECTS

HealthAdvisor AI
AI/Machine Learning Full Stack Project   December 2024 - January 2024

- Engineered a **Retrieval-Augmented Generation (RAG)** system that accurately identified and recommended medical conditions based on user-reported symptoms, utilizing open-source resources and the **OpenAI GPT-3**.
- Automated data collection using **Selenium**, ensuring retrieval optimization, structured dataset for models training.
- Built a scalable **FAISS-based semantic search system** to extract top-k relevant chunks, enabling **context-aware natural language responses** from OpenAI GPT-3 with improved accuracy and efficiency.

StudyBot
AI/Machine Learning Full Stack Project   September 2024 - Oct 2024

- Designed and developed a **full-stack application** integrating a fine-tuned **GPT-2 model**, enabling dynamic and contextually accurate text generation specifically designed to enhance student learning experiences.
- Designed and deployed a high-performance Flask backend with a response latency under 1 seconds for up to 150 tokens, while developing RESTful APIs in **Node.js** to enable seamless real-time communication.

Gator Connect
Full-Stack Group Project   March 2024 - May 2024

- **Collaborated** with a team of five to develop a web application that streamlined academic resources and enhanced student communication at San Francisco State University.
- Designed and implemented robust backend APIs using **Express** and **AWS** to store relational databases, ensuring scalability and reliability.

SKILLS & INTERESTS

Languages: Python, Java, SQL, Javascript, TypeScript, HTML, PostgreSQL, CSS
Programing and Tools: Git, AWS, MongoDB, MySQL, PostgreSQL, Figma, FAISS, Selenium, Docker, Kubernetes
Frameworks & libraries: React, Node.js, Express.js, NextJS, OpenAI, Flask, Hugging Face
Skills: Secure Communications (TLS/SSL, OAuth2), Networking (TCP/IP), Data Manipulation (Pandas, NumPy)