

Alami Afilal

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EDUCATION

San Francisco Bay University

Master of Science in Computer Science | 3.91/4.0

Fremont, CA

Sep 2022 - Apr 2024

California State University, East Bay

Master of Science in Construction Management

Hayward, CA

Aug 2021 - Aug 2022

San Jose State University

Bachelor of Science in Civil Engineering

San Jose, CA

Aug 2017 - Dec 2020

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, SQL

Frameworks and Libraries: React.js, Langchain, Flask, PyTorch, NumPy, Pandas

Tools: Git, Terminal, Docker

PROJECTS

Full Stack University Chat Application | React, Flask, Langchain, OpenAI, Cohere, ChromaDB | Competition Winner

- Led the team in the development of a responsive and interactive chat assistant using **React** for prospective students seeking university-related information.
- Implemented a voice interaction feature with real-time audio input and output processing using OpenAI TTS for Text-To-Speech and Whisper for Speech-To-Text, enhancing accessibility and user engagement.
- Integrated **Langchain** with the **OpenAI** and **Cohere** APIs to augment the Language Model with RAG that dynamically sourced data from the university's knowledge base, showcasing an accuracy of more than 90% in retrieving the relevant context.
- Utilized **ChromaDB** as an Embedding Database for storing and accessing vector representations of university text data, significantly improving the precision of information retrieval.
- Utilized **Flask** to build a robust server-side API that can handle complex queries, enabling fast data retrieval and processing for the chat application.
- Won 1st place at the university-wide AI Competition judged by a panel from the university administration. Our Student Assistant Chat Application was praised for its natural language processing and ability to provide tailored and helpful information to prospective students.

MiniTorch - Miniature PyTorch Framework | Python, Numpy

- Designed a simplified version of the **PyTorch** library from the ground up to understand and demonstrate **deep learning** fundamentals.
- Designed and implemented a custom **DataNode** class using **NumPy** to simulate PyTorch's tensor functionality, allowing for intricate matrix operations and transformations essential for neural network computations.
- Integrated multiple optimization algorithms such as Adam Optimizer, Gradient Descent (GD), and Stochastic Gradient Descent (SGD), providing versatility in approaching various optimization problems in model training.
- Crafted a user-friendly API for the mini-framework that mirrors PyTorch's design, enabling users to build, train, and test neural networks with an accessible interface.

EXPERIENCE

Project Management Intern

Jun 2022 - Aug 2022

Lusardi Construction

Dublin, CA

- Assisted in the management of all sets of drawings, specifications, and logs for a \$80+ million project, ensuring accurate and up-to-date information.
- Efficiently prepared and distributed subcontract S7 documents to subcontractors, streamlining communication and collaboration.
- Leveraged Procore to create, update, and track submittals and RFIs, maintaining a well-organized project management system.
- Collaborated with the Project Manager to develop a comprehensive construction schedule, facilitating on-time project completion and resource optimization.

Shift Lead

Nov 2018 - Present

Superior Gas and Carwash

San Leandro, CA

- Managed daily operations, including staff supervision, scheduling, and inventory, demonstrating strong leadership and organizational skills.
- Ensured the proper maintenance and operation of gas station equipment and systems, showcasing a keen eye for detail and problem-solving abilities.
- Played an integral role in recruitment, hiring, training, and employee development, highlighting effective communication and team collaboration skills.