

Omar Badr

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EDUCATION

San Diego State University

Bachelor of Science in Computer Science (GPA: 3.6, Major GPA: 3.9)

San Diego, CA

Dec. 2025

EXPERIENCE

Backend Engineer Intern

BreatheIT Solutions

Nov. 2024 – Present

Eagan, MN | Remote

- Built modular backend architecture using **Model-View-Controller** pattern handling **28+ API** endpoints for **CRUD** operations, using **Node.js/Express**, **JWT authentication**, **PostgreSQL** with flexible date-based querying and error handling
- Collaborated with front-end developers working in **React Native** to integrate user-facing elements with **PostgreSQL**-backed server logic, ensuring seamless data synchronization and enhanced user experience
- Deployed changes on **Google Cloud Platform**, configuring **NGINX** for efficient load balancing and using **PM2** for process management to ensure high availability and streamlined deployment processes

Full Stack Software Developer Intern

Eligico

May 2024 – Aug. 2024

Los Angeles, CA

- Developed and maintained **5+** dynamic websites using **React**, **MySQL**, and **PHP**, improving page load times by **20%** and increasing user engagement by **15%**
- Designed and optimized **MySQL databases**, ensuring efficient data storage
- Deployed and managed containerized applications using **Docker**, streamlining development workflows and improving deployment efficiency

PROJECTS

Soccer Connections | *React, Node, Express, MongoDB* | soccer-connections.onrender.com

Jun. 2024 – Present

- Developed and deployed, a full-stack web application, growing the platform to **2,000+ users** in **4 months** and improving user retention by **25%** through interactive features
- Designed and integrated a **RESTful API** with **MongoDB** for data persistence
- Tested and validated **RESTful API** endpoints using **Postman**, ensuring robust error handling, correct data formatting, and adherence to **API** specifications

LLM Prompt Enhancer Chrome Extension | *Javascript, OpenAI API* | [Github](#)

Jul. 2024 – Present

- Developed a Chrome extension leveraging **OpenAI's GPT-3.5 API**, and **fine-tuned** the model to dynamically expand user prompts, significantly enhancing language model outputs
- Published the extension gaining **40+ downloads** and an average of **5 stars reviews**
- Implemented **asynchronous messaging**, secure **API** integration, and **local storage** for a seamless user experience

MRI Scan Knee Injury Classifier | *Scikit-learn, Tensorflow, Pandas, NumPy, OpenCV* | [Github](#)

Nov. 2024

- Conducted data preprocessing and feature extraction on MRI datasets to analyze normal and abnormal knee injuries, identifying key patterns for classification
- Built and evaluated classification models including **Logistic Regression**, **SVM**, and **neural network**, optimizing for accuracy and F1-score to handle data imbalances effectively

SKILLS

Languages: JavaScript, Java, Python, C++, SQL, HTML/CSS

Technologies: React, Node, Express, Tailwind, MongoDB, MySQL, PostgreSQL

Developer Tools: Git, Docker, Google Cloud Platform, Postman