

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

May 2025

EXPERIENCE

Backend Software Engineer Intern

BreatheIT Solutions

Nov. 2024 – Present

Eagan, MN | Remote

- Developed backend with **Model-View-Controller** pattern, managing **28+** **API** endpoints for **CRUD** operations using **Node/Express**, **JWT authentication**, **PostgreSQL**, and error handling for date-based queries
- Built **OAuth 2.0** authorization system, implementing token encryption, session management, and automated token refresh with **Google API** and **PostgreSQL** storage
- Worked with front-end team using **React Native** to integrate user-facing features with **PostgreSQL** database, ensuring data synchronization and improving user experience
- Deployed updates on **Google Cloud Platform**, configuring **NGINX** for load balancing and using **PM2** for process management to ensure uptime and simplify deployment

Full Stack Software Developer Intern

Eligico

May 2024 – Aug. 2024

Los Angeles, CA

- Designed, developed, and maintained **5+** dynamic websites using **React**, **MySQL**, and **PHP**, reducing page load times by **20%** through performance optimization and enhancing user engagement by **15%** via improved UX/UI design
- Optimized **MySQL** database performance by normalizing schemas, adding indexes to key columns, and writing efficient queries, resulting in faster data retrieval and better scalability
- Managed containerized applications using **Docker**, to streamline development workflows and improve deployment efficiency

PROJECTS

OFFSIDE | *React Native, TypeScript, Go, MongoDB, Redis* | [Github](#)

Jan. 2025

- Currently developing a full-stack mobile soccer social platform using **React Native**, **TypeScript**, **Go**, and **MongoDB**, where users can post opinions, follow teams, and access personalized feeds of game schedules and sports news through **RESTful APIs**
- Implemented real-time chat functionality using **Gorilla WebSocket** WebSocket protocol, allowing users to participate in game specific chat rooms with features like live messaging, room management, and user presence indicators
- Built an efficient content delivery system for sports articles and game schedules using **Redis**, reducing API calls by 70% while ensuring data freshness through automated cache invalidation

Football Connections | *React, Node, Express, MongoDB* | football-connections.onrender.com

Jul. 2024 – Present

- Developed and deployed, a **React/Node.js** word connections game, getting **2,000+** visits in **3 months**
- Implemented secure backend for feedback and statistics collection using **Express.js with MongoDB**, incorporating rate limiting, data sanitization, and Helmet security middleware to prevent common web vulnerabilities

LLM Prompt Enhancer Chrome Extension | *Javascript, OpenAI API* | [Link](#) | [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, enhancing language model outputs
- Published the extension gaining **20+** downloads and an average of **5 stars reviews**
- Implemented **asynchronous messaging**, secure **API** integration, and **local storage** for user experience

SKILLS

Languages: JavaScript, Java, Python, Go, SQL, HTML/CSS

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

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