Omar Badr

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EDUCATION

San Diego State University   San Diego, CA
Bachelor of Science in Computer Science   *Aug. 2022 – May 2025*

WORK EXPERIENCE

Backend Software Engineer Intern   Nov. 2024 – Present
BreatheIT Solutions   *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   May 2024 – Aug. 2024
Eligico   *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 – Present

- Currently developing mobile soccer social platform with 3 developers 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** 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

LLM Prompt Enhancer Chrome Extension | *Javascript, OpenAI API* | Link | Github   July 2024 – Present

- Built a Chrome extension that expands user prompts using a custom **GPT-3.5 model fine-tuned on 1000+** prompt-completion pairs in **JSONL** format
- Released the extension on Chrome Web Store, achieving **20+ downloads** and maintaining a **5-star rating**
- Engineered the extension architecture with Chrome's message passing system, secure API key handling, and persistent storage for user preferences and history

Football Connections | *React, Node, Express, MongoDB* | Github | Link   May 2024 – Oct. 2024

- Developed and deployed, a **React/Node** 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

TECHNICAL 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