

# Omar Elamri

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## EDUCATION

### University of California, Los Angeles (UCLA)

Expected June 2024

B.S. Computer Science, *Technical Breadth in Mathematics, Electrical Engineering*

GPA 3.91

**Coursework:** Systems and Signals, Neural Signal Processing, Software Construction, Machine Learning, Operating Systems, Algorithms

**Activities:** Psi Beta Rho (division of ACM Cyber), *Member*; Upsilon Pi Epsilon (CS Honors), *Member*; Muslim Student Association, *Member*

## TECHNICAL SKILLS

**Software Engineering:** **Languages:** Swift, Python, OCaml, Elisp, C, C++, Java, JavaScript, TypeScript; **Frontend:** React, Angular, Ionic, Expo, SwiftUI, **Backend:** Node.js, MongoDB, PM2, Nginx, Certbot; **Infrastructure:** Azure, Google Cloud, Docker, Kubernetes

**Machine Learning:** Jupyter, NumPy, Pandas, SciKit-Learn, PyTorch, TensorFlow, Keras

**Computer:** Microsoft Office, Adobe Creative Suite, Final Cut Pro, Motion, Windows, macOS, Unix, Vim, Emacs

## WORK EXPERIENCE

### Walleye Capital

Plymouth, MN

Part-Time Software Engineer

June 2022 - May 2023

- Contributed to Walleye's Deephaven DB system by designing and developing 5 interactive widgets using Java Swing.
- Proposed and implemented the modernization of Walleye's Trading Desk's tools, leading to a 10% increase in trader satisfaction.
- Created a command-line app that seamlessly integrated Microsoft Teams with RingCentral, simplifying communication for employees.
- Facilitated efficient FTP file transfers within the company's intranet by developing 5 shell scripts with Microsoft PowerShell.

### Horwitz, LLC

New Hope, MN

Software Engineer, Contractor

January 2019 - Present

- Led the development of a full-stack virtual inventory using Node.js and React, in use by 50 warehouse and on-site engineers.
- Managed the deployment of the system on Azure platform, leveraging an Nginx reverse proxy and a PM2 load balancer.
- Maintained system functionality and security over 4 years, consistently incorporating feature requests from users and updating dependencies.

### EA Ideas, LLC

Minnetonka, MN

Software Developer, Videographer

May 2019 - Present

- Produced high-quality brand-focused videos for over 20 corporate clients, substantially enhancing their online presence.
- Streamlined the Wix website development process by writing custom scripts with Velo.
- Developed 13 diverse industry-specific web applications using React, Node.js, and PM2, catering to various enterprises across different industries.

## PROJECTS

### Digitr

- Created an innovative educational application that keeps a record of students' activities outside the classroom, providing a comprehensive insight into their overall engagement.
- Employed effective marketing strategies, resulting in adoption by over 20 schools.
- Presented the project at 5 trade shows and formal events, leading to a 23% increase in customer acquisition.

### Open Talk

- Co-developed an AI/VR chatbot during Stanford University's TreeHacks hackathon to address issues of loneliness and enhance social skills.
- Successfully pitched the app to high-profile venture capital funds such as YCombinator, showcasing strong presentation skills and technical knowledge.

### FoodScoop

- Built a modern full-stack application that aggregates and presents UCLA dining info in a user-friendly manner, enhancing the student dining experience.
- Streamlined deployment to Google Cloud Run with automated continuous integration and auto-deploy scripts.
- Displayed leadership skills as the project manager of a 4-member team, effectively distributing tasks and ensuring timely project completion.

## MISCELLANEOUS

Proficient in Arabic and English