

# 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:** Neural Signal Processing, Machine Learning, Operating Systems, Algorithms, Networking, Theory of Computation  
**Activities:** Psi Beta Rho (division of ACM Cyber), *Member*; Upsilon Pi Epsilon (CS Honors), *Member*; Muslim Student Association, *Member*

## WORK EXPERIENCE

**The World Bank** Los Angeles, CA  
*Research Assistant* July 2023 - Present

- Applied advanced AI/ML technologies (BART, SVM, TF-IDF, RNNs) to automate research article analysis, improving data processing efficiency.
- Optimized algorithms to enhance information extraction, providing actionable insights for policy decisions.
- Facilitated collaboration within the team and maintained open communication with Dr. Graeme Blair and the UCLA research team.

**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.

**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.

## 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

## 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 French