

Ghadeer Al Jufout

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Education

University of California, Irvine
B.S. in Software Engineering

GPA: 3.98

Expected Graduation: June 2026

Technical Skills

- **Languages:** C++, Python, Java, HTML, CSS
- **Cloud & DevOps:** AWS (EC2, S3), Kubernetes, Docker, Podman, ECS, EKS, Red Hat OpenShift
- **Development Tools:** Git, GitHub, GitLab, Jenkins, SonarQube, Bash, MATLAB
- **Design & Analysis:** Figma, Draw.io, Wireshark

Relevant Coursework

Data Structures, Algorithms, Computer Networks, Information Retrieval, Operating Systems, Database Systems, Software Engineering

Research

- MATLAB-Based Lightweight Workload Prediction via Machine Learning Models in Distributed Systems (IEEE GESS 2024). [Link]
 - Built ML selector for distributed systems workload prediction (IEEE GESS 2024).
 - Improved accuracy using regression-based model tuning and dynamic parameter selection.
 - Integrated with Docker to support scalable testing across multiple simulated nodes.

Projects

- **AutoML Selector** [Link]
 - Built a MATLAB-based AutoML selector to choose optimal ML models for workload prediction.
 - Implemented Docker deployment and parallel computing for up to 4× faster execution.
 - Reduced runtime latency by 37% while improving scalability across varied datasets.
- **P2P File Sharing System** [Link]
 - Created decentralized LAN sync and file transfer system using Docker and Socket Programming.
 - Enabled conflict resolution and active peer discovery using custom protocol.
 - Configured and scaled nodes using Docker Compose.
- **Custom Search Engine** [Link]
 - Built tokenizer, crawler, and search UI for over 500 webpages using Python and web crawling.
 - Applied similarity algorithms to rank pages based on custom scoring.
 - Added rule-based delay handling to respect site robots.txt.
- **Canvas Task Manager (UX)** [Link]
 - Designed Canvas feature through user interviews and UI testing using Figma and prototyping.
 - Ran usability tests to refine task-tracking design and feedback placement.
 - Integrated interview insights into wireframes to improve student engagement.