

# Ghadeer Al Jufout

galjufout@gmail.com | (562) 509-9183 | linkedin.com/in/ghadeer03 | github.com/Ghadeer122003

## Education

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

GPA: 3.98  
*Expected Graduation: June 2026*

## Technical Skills

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- **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

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

## Research

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- **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

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- **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.