

# YOUSIF KHALEEL

<https://www.linkedin.com/in/ykhaleel/> | <https://github.com/ykhale> | [hireyousifkhaleel@gmail.com](mailto:hireyousifkhaleel@gmail.com) | <https://ykhale.github.io/YousifWebsite/>

## EDUCATION

### Elmhurst University

Elmhurst, IL

*Bachelor of Science, Computer Science, Minor in Mathematics*

*Programming Languages:* Python, Java, C++, C, Swift, JavaScript, TypeScript, Standard Meta Language, Assembly

*Frameworks/Tools:* HTML/ CSS, Bootstrap, Swift UI, React, Node.JS, MySQL, Google Apps Script, Socket.IO

## EXPERIENCE *Additional Experience Listed on Linked-In*

### Ocean Network Express

Lombard, IL

#### *Software Engineering Intern*

May 2024 – Aug 2024

- Single-handedly engineered a real-time container scheduling system (Google Apps Script, JavaScript, HTML, CSS) to instantly validate over 8,000 shipper-owned, 4,000 off-hire, and 50,000+ fleet containers, effectively preventing port shutdowns and averting regulatory fines during peak seasons
- Modernized and redesigned 14 internal EQC webpages, leveraging responsive design and advanced UI/UX principles to create a seamless, brand-consistent user experience.
- Projected \$150K–\$200K in annual cost savings by automating container validation workflows, eliminating manual checks, and substantially reducing scheduling errors, thus streamlining port traffic and enhancing operational efficiency.
- Conducted in-depth training for data analysts on web application maintenance, technical documentation, and system architecture, ensuring long-term sustainability and effective knowledge transfer within the organization.

### Cognizant

Remote

#### *Generative Artificial Intelligence Extern*

May 2024 – July 2024

- Engineered a robust image recognition pipeline, benchmarking and optimizing the efficiency of multiple Convolutional Neural Network (CNN) architectures for higher accuracy and faster inference.
- Preprocessed dataset by applying tokenization to train Bert model using PyTorch and HuggingFace
- Adjusted hyperparameters and evaluated metrics to measure model performance.

## RELEVANT PROJECTS *Additional Projects Listed on Personal Portfolio and GitHub*

### **Ychat.live** | React, JavaScript (ES6+), Socket.IO, HTML/CSS, Node.js, MongoDB

- Developed a full-stack real-time chat platform featuring instant messaging, dynamic chat rooms, typing indicators, and read receipts—all delivered with sub-50ms latency during peak usage.
- Architected a scalable backend capable of supporting over 1,000 concurrent users, with automated TTL indexing that expires messages after 24 hours for efficient data management.
- Deployed the frontend on Netlify and the backend on Render, demonstrating a robust approach to CI/CD, cross-origin resource sharing (CORS), and environment variable management.

### **iPhone Reminder Application** | Swift, SwiftUI

- Created a sleek, user-friendly to-do list app with real-time task updates, organized into categories (School, Work, Home, Misc.) and customizable with emojis and color themes.
- Achieved a responsive interface leveraging SwiftUI's dynamic layout and Apple-native gestures, boosting productivity and user engagement.

### **Sudoku Solver** | Python

- Implemented a Sudoku solver using the backtracking algorithm, capable of handling varying puzzle difficulties in under two seconds.
- Developed an interactive GUI for puzzle input, solution visualization, and error-checking, offering an engaging, hands-on tool for algorithmic problem-solving