

YOUSIF KHALEEL

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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.

iRepair Scheduler | Google Apps Script, Google Sheets, HTML, CSS

- Designed and implemented an intuitive, real-time appointment booking system for my on-campus phone repair side business, enabling customers to reserve repair slots with live validation against current repair part inventory.
- Developed an integrated backend workflow that automates inventory adjustments, sends instant email confirmations and cancellation notices, and streamlines service delivery—enhancing overall operational efficiency and customer satisfaction.

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.