

Mohamed Kaid

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PROFESSIONAL EXPERIENCE

Autonomous Vehicle Support Specialist, TaskUs

07/2025 – Present

- Provided real-time navigational input to autonomous vehicle (AV) systems using proprietary software tools, ensuring safe and accurate path planning in complex environments.
- Monitored AV sensor data and system logs to detect anomalies, proactively addressing technical issues to maintain operational safety and compliance.
- Collaborated with engineers and AV algorithms to optimize route decisions using real-time traffic inputs, GPS data, and onboard diagnostics.
- Utilized human-machine interface (HMI) platforms to interact with AV systems, executing interventions and system overrides when required.
- Documented system behaviors and edge cases for engineering review, contributing to machine learning model refinement and software updates.

Student/Learner, Apple Developer Academy | MSU (Apprenticeship)

08/2025 – Present

- Collaborate with cross-functional teams to design, develop, and launch iOS applications from concept to functional prototype.
- Integrate UI/UX design, front-end development, and back-end logic to deliver user-focused, production-ready apps.
- Leverage modern Apple technologies including Swift, SwiftUI, and Xcode to build scalable, real-world solutions.
- Adapt to evolving technical challenges by iterating on features, debugging efficiently, and incorporating structured peer feedback.

Vehicle Test Driver, Performance Driven Workforce/Ford (Part-Time)

01/2025 – 09/2025

- Performed durability, validation, and performance testing on pre-production vehicles to support engineering verification and launch readiness.
- Executed structured test protocols across ride quality, handling, braking, and electronic systems, identifying and documenting performance anomalies.
- Logged detailed test data and feedback that contributed to quality assurance improvements and issue resolution cycles.
- Collaborated with engineering and validation teams to provide real-time operational insights during vehicle evaluation phases.
- Maintained strict adherence to safety, regulatory, and operational standards during controlled and on-road testing environments.

SKILLS

Languages:

Python, Java, C, C++, JavaScript, Swift, HTML5, CSS3, PHP, SQL

Frameworks & Libraries:

Flask, Pandas, Requests, BeautifulSoup, Smtplib, Firebase, Arduino, Tkinter, FastAPI, SwiftUI

Developer Tools:

Android Studio, Arduino Uno, Eclipse, Figma, Git, Google Cloud Platform (GCP), Miro, MySQL Workbench, NetBeans, PyCharm, SQLite3, Swift Playgrounds, VS Code, Xcode

EDUCATION

Bachelor in Computer Science, *Eastern Michigan University*

Ypsilanti, MI

TECHNICAL PROJECTS

Trucker (Driver & Document Management System), *Python, Flask, HTML5, JavaScript, Firebase*

- Built and deployed a web-based driver management platform that centralized records and document tracking, replacing manual processes.
- Developed a clean, user-friendly front-end using HTML, CSS, and JavaScript for daily operational use by non-technical staff.
- Implemented role-based access control with Firebase Authentication to manage permissions for admins and dispatchers.
- Integrated Firebase Firestore for real-time data storage and synchronization of drivers and loads.
- Created Python automation scripts to send email reminders for document expirations, improving compliance tracking.
- Added Excel-based bulk upload functionality to streamline fleet onboarding and support scalability.

Color Frenzy, *SwiftUI, GameKit, GameCenter*

- Built a fast-paced, reaction-based iOS game using SwiftUI with multiple gameplay modes (Classic, Rapid, Chaos) driven by a modular game engine.
- Designed a reusable rules-based architecture to support dynamic timers, scoring logic, lives, and mode-specific behaviors.
- Integrated Apple Game Center to track best scores and global leaderboards with real-time score submission.
- Implemented responsive UI layouts optimized for iPad, including animated timers, score bars, and dynamic card grids.
- Iterated on UI/UX and game balance through TestFlight builds and user testing.

CERTIFICATES

- Apple & Michigan State University Foundation Program [↗](#)
- Introduction to User Centered Development [↗](#)
- Introduction to UI Design and Swift Fundamentals [↗](#)
- Introduction to iOS App Development [↗](#)
- Fraud Fighter

OPEN SOURCE CONTRIBUTIONS

DigaFlow (Open Source Contribution – Frontend & UI Integration)

- Built a smart loading screen that triggered based on API activity, starting when a request was made and ending when data was received, improving real-time feedback for users.
- Improved accessibility and layout consistency across browsers and devices by refining UI elements using **JavaScript** and **CSS**.
- Contributed directly to the codebase by independently developing and pushing front-end features, helping improve user experience without requiring major revisions.

ACTIVITIES

Building an Innovative Software Venture

- Spearheading the design, integration, and validation of scalable software systems for a tech driven startup, emphasizing modular architecture and growth potential.
- Researching and applying software frameworks aligned with quality assurance best practices and regulatory expectations (e.g., security, data compliance).