

HAKIM ALKAFAH | SOFTWARE ENGINEER

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SUMMARY

Software engineer who automates workflows, builds internal tools, and ships full-stack applications. Writes Python/Flask and React apps, deploys to GCP Cloud Run, and maintains CI/CD pipelines on GitHub Actions.

PROFESSIONAL EXPERIENCE

FORD MOTOR COMPANY

Tool Automation Programmer

Dearborn, MI

03/2023 – 05/2025

- Saved 1,100+ engineer hours annually by reducing vehicle wiring-schematic prep from 40 hours to under 1 hour through Python automation that standardized parameters and caught errors in tests.
- Reduced deployment time by 50% by migrating CI/CD from Tekton to GitHub Actions and standardizing pipelines across services while maintaining 95% test coverage.
- Accelerated schematic compatibility checks by 10x with a diff engine that flags circuit, connector, and pin changes between revisions to catch regressions during design reviews.
- Centralized authentication for 200 engineers across 15 internal tools by implementing ADFS SSO on a Flask app deployed to GCP Cloud Run.

PROJECTS

Construction Crew Scheduler | Next.js, Tailwind CSS, Clerk, Convex, Vercel | Live Demo

2025

- Built a multi-user scheduling app with calendar views by crew and job, conflict detection, and role-based access to prevent double-booking and improve crew visibility.
- Integrated real-time updates with Convex for instant schedule synchronization across users and implemented Clerk authentication with role-based permissions.

StoreOps Task Scheduler | React, Flask, PostgreSQL, Docker

2024 – Present

- Built a task-orchestration system with JWT authentication and rules-based auto-assignment to streamline store operations, packaged with Docker Compose for deployment.
- Designed PostgreSQL schema with task dependencies and scheduling logic, exposing RESTful endpoints for task creation, assignment, and status tracking.

SKILLS

Python | Flask | JavaScript | React | PostgreSQL | Docker | GitHub Actions | CI/CD | REST APIs | GCP (Cloud Run) | TDD | ADFS/SSO | Next.js | Tailwind CSS

EDUCATION

B.S. Computer Science | Eastern Michigan University | Dec 2022

A.A.S. Computer Information Systems | Henry Ford College | May 2020