Mikaeel Khan

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Education

University of Houston — Houston, TX
Aug. 2024 – Present
Major in Computer Science, Minor in Biology — *GPA: 3.84/4.00*

Experience

Software Engineer — Jun. 2024 – Nov. 2024
MedLit AI — *Houston, TX*

- Designed and implemented a Python REST API using Flask to serve kidney-transplant AI models, enabling secure, scalable integration into clinical decision-support systems.
- Developed comprehensive unit and integration test suites (pytest) for AI modules, driving code coverage above 95% and catching regressions early.
- Refactored core inference pipelines—optimizing data preprocessing and model-loading routines—to reduce end-to-end latency by 40% under simulated production loads.
- Automated CI/CD for model training and deployment using GitHub Actions and Docker, enabling zero-downtime updates and consistent staging releases.

Software Engineer — Jan. 2025 – Present
HealthQuest Infusion & Specialty — *Houston, TX*

- Collaborated with pharmacy and nursing teams to map workflows and built JavaScript ETL scripts with GitHub Actions CI/CD, automating reporting and documentation to cut manual effort by 25% and speed up training.
- Tested, debugged, and documented defect fixes in the custom infusion therapy management system, collaborating with senior developers to accelerate release cycles.
- Authored user guides and process documentation for internal tools, streamlining onboarding and cutting training time for new hires by 30%.
- Participated in code reviews and sprint planning using Git and Jira, contributing feature enhancements that improved system performance and reliability.

Software Engineer — May. 2025 – Present
RiftCoach — *Houston, TX*

- Integrated the League of Legends Live Client API into a lightweight desktop app, capturing real-time match data and feeding it to our AI coaching engine for in-game strategic advice.
- Engineered a sub-500 ms overlay powered by containerized inference services (Docker), scaling active user sessions 3× under peak load.
- Built a staging pipeline with automated unit and integration testing using GitHub Actions and Helm, preventing regressions and enabling safer weekly releases.

Awards

FIRST Robotics World Championship Qualifier 2x — Mar. 2022/Mar. 2023
Strake Jesuit College Preparatory — *Houston, TX*

- Co-developed Java and C++ WPILib frameworks for multi-step autonomous routines, boosting success rate by 60% and cutting manual tuning time by 80%.
- Engineered CAN-bus fail-safe communication and implemented an OpenCV vision pipeline with tuned multi-sensor PID loops, ensuring 99.5% reliability, 95% detection accuracy, and 75% reduction in path drift.
- Mentored 5 teammates on Git-based workflows and test-driven development, cutting integration conflicts by 40%.

Technical Skills

Languages: Java, Python, C, C++m Go, JavaScript, Kotlin, SQL, MySQL, TypeScript
Development & Frameworks: Express.js, React, Dash, RESTful Services, AWS, MongoDB, DynamoDB, GraphQL, gRPC, Protobuf
Software & Tools: Git, Linux, ROS, CAN Data, Matlab Simulink, Tableau, Docker