

Zaid Khan

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EDUCATION

Kennesaw State University

Bachelor of Science in Computer Science

Atlanta, GA

Jan 2023 - Dec 2025

EXPERIENCE

Delta Air Lines

Software Engineering Intern – Python, SQL, Microsoft Suite

Atlanta, GA

May 2025 – Aug 2025

- Developed modular Python data-processing scripts using AWS Athena and Pandas, implementing timestamp alignment, outlier detection, and imputation techniques to clean telematics data, enabling easier validation of the new GSE telematics system across 9 Delta hubs for data analysis.
- Engineered equipment-level usage models for GSE assets using telematics data, enabling accurate clustering and seasonal forecasting for asset analysis and supporting future machine learning prediction models.
- Built Meta Prophet-based forecasting scripts in Python to generate predictive maintenance timelines by analyzing time-series usage data for TLD Jet-16 baggage tractors, improving alignment of maintenance schedules with actual equipment usage, allowing for 75% more runtime across most baggage tractors.

Kennesaw State University Robotics Competition Team

Marietta, GA

OWL Robotics Programming Lead – C++

Jan 2023 – Aug 2024

- Developed autonomous and teleop control routines in C++ for multiple robots focusing on drivetrains and scoring systems, enabling reliable navigation of complex game environments and contributing to a top-3 global ranking.
- Designed and tuned custom PID controllers in C++ using encoder and sensor feedback to optimize motor precision, reducing drift and overshoot in autonomous routines.
- Managed Git workflows for a 13-member team and mentored new members on version control best practices and C++ codebase structure to accelerate onboarding and contributions.

PROJECTS

Sustain Sync AI Engine | Docker, Django, Postgres, Python, React

Aug 2025 – Dec 2025

- Designed and implemented a scalable microservice-based backend for a Sustainability Engine using Docker, defining clear service boundaries for utility-bill ingestion, prompt handling, and recommendation generation to support modular development and independent service evolution.
- Engineered and deployed a REST API with 9 production endpoints using Django and PostgreSQL, implementing robust data ingestion pipelines, validation logic, and persistence to ensure reliable backend operations.
- Developed backend analysis and forecasting services by integrating Meta Prophet for time-series processing and built a retrieval-augmented generation (RAG) layer in Python using FAISS to support efficient querying and response generation from stored data.

Simple Restaurant Management System | Python, HTML/CSS, Flask, Pandas

Jan 2025 – May 2025

- Developed a restaurant management web application with a Flask backend and HTML/CSS frontend, implementing authentication, table management, menu ordering, inventory tracking, and manager operations.
- Designed role-based login and interfaces (manager, waiter, busboy, chef) communicating via Flask API endpoints, and collaborated within an Agile team using sprint planning and iterative development to deliver modular features.

ACTIVITIES AND LEADERSHIP

Kennesaw State University Robotics Competition Team Mentor

Aug 2024 – Current

- Managed 50+ members, lab logistics, and internal communication using Discord and Microsoft Suite (Teams, Outlook, Calendar), improving member retention and team organization.
- Mentored 10+ student teams across Georgia, with multiple teams performing strongly at the VEX World Championship.
- **Volunteering:**
 - Head Referee at multiple VEX Robotics competitions across Georgia and neighboring states.
 - Led youth robotics programs, introducing students to STEM and foundational engineering concepts.

TECHNICAL SKILLS

Languages/Frameworks: Python, C++, SQL, Flask, Django, Pandas, React, Postgres

Developer Tools: Arch-Linux, Windows, Git, VS Code, VIM, Google Suite, Microsoft Suite, Vercel