

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 to automate validation of GSE telematics data from 9 hubs.
- Engineered asset-level usage models by creating features such as duration, time-of-day, and divisional usage, enabling accurate equipment clustering and seasonal forecasting for downstream analytics systems and supporting future ML prediction and analysis models.
- Built Prophet-based forecasting scripts to generate predictive maintenance schedules by analyzing time usage data for airport critical GSE fleets, improving alignment of maintenance intervals with actual equipment usage.

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 multi-subsystem robots including drivetrains, arm actuators, and scoring systems, enabling reliable navigation of complex game environments, efficient scoring, which contributed to a top-3 global ranking across head-to-head and skills challenges.
- Designed and tuned custom PID controllers in C++ using encoder and sensor feedback to improve motor precision across variable speed regimes, reducing drift and overshoot in autonomous routines.
- Managed Git workflows for a 13-member team and mentored new members on version control practices and C++ codebase structure to accelerate onboarding and contributions.

PROJECTS

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

Aug 2025 – Dec 2025

- Engineered and deployed a REST API with 9 production endpoints for utility-bill analytics using Django and PostgreSQL to ensure reliable data ingestion and management.
- Built AI analysis and forecasting services by integrating Prophet for time-series predictions and implementing a RAG pipeline using FAISS retrieval with Ollama3.2 and standard NLP to analyze user input.
- Containerized the full development stack using Dockerfiles and Docker Compose with persistent volumes and health checks to support reproducible, CI/CD-ready environments.

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

Jan 2025 – May 2025

- Developed a small-scale restaurant management web app with a Flask backend and static HTML/CSS frontend to handle login, table management, menu ordering, inventory tracking, and manager operations.
- Created role-based static interfaces (manager, waiter, busboy, chef views) that interacted with the backend via local flask API calls, improving usability and modularity.
- Collaborated within a small Agile team using sprint planning, task tracking, and iterative development cycles to manage deliverables and maintain consistent progress.

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, Calender - improving member retention and team organization.
- Mentored 10+ student teams across GA, with multiple teams performing well in the VEX World Championship.
- **Volunteering:**
 - Head Referee at multiple VEX robotics events across Georgia and neighboring states.
 - Robotics programs for younger kids, introducing them to robotics and helping them get excited about STEM.

TECHNICAL SKILLS

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

Developer Tools: Git, VS Code, Google Suite, Microsoft Suite, Vercel, Heroku