

Zaid Khan

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EDUCATION

Kennesaw State University

B.S. in Computer Science

Marietta, Georgia

Expected Graduation, Dec 2025

- **Concentrations:** Artificial Intelligence and Machine Learning
- **GPA:** 3.64/4.00, *Dean's List*
- **Related Coursework:** Artificial Intelligence, Machine Vision, Machine Learning, Data Structures & Algorithms, Computer Organization and Architecture, Operating Systems, Data Analytics, Database Systems

EXPERIENCE

KSU VEXU Robotics team

OWL Robotics Programming Lead

Marietta, Georgia

Aug 2022 – May 2024

- Used C++ to develop a field oriented positioning system for VEX robots to have full understanding of their position across a 12ftx12ft field.
- Leveraged git to allow for collaboration between 13 team members and work across multiple devices.
- Debugged issues regarding the use of third party sensors and libraries such as odometry pods and OpenGL.
- Used C and C++ to program 8 VEXU robots to complete the skills challenge autonomously, becoming a top 3 team in the world.

Code Ninjas

Coding Instructor

Snellville, Georgia

Oct 2023 – May 2024

- Used Python and Javascript to teach 20+ students/day about the fundamentals of programming and game development.
- Used C# and Unity engine to teach 5+ students/day about the fundamentals of game development and debugging.

PROJECTS

Web App Portfolio

Personal Project

Atlanta, Georgia

June 2024 – Present

- Used Heroku, Flask, HTML, Tailwind and Python to create a live app to showcase my projects and allow users to simulate their own results using their own datasets and images.

Machine Learning, Machine Vision

ML Engineering Student

Marietta, Georgia

Aug 2024 – Present

- Used Python, Numpy, Matplotlib, and Pandas to develop a KMeans algorithm for unsupervised learning to cluster the Iris dataset and an arbitrary KMeans test matrix of rank 2.
- Used Python, Pillow, Numpy, and OpenCV to implement image downscaling/upscaling, quantization, transformation, and histogram equalization on images at the pixel level, showcasing the different results of these transformations.
- Used Python and Numpy to develop and train a single layer neural network for a supervised learning task which predicted outcomes as 'bright' or 'dim' based on a 4 binary value input.

ACTIVITIES AND LEADERSHIP

Georgia V5RC

VEX Robotics Mentor

Atlanta, Georgia

Aug 2022 – Current

- Mentored 20+ robotics teams in Georgia and the southeast US with little experience to make it to the final rounds at the VEX Robotics World Championship.
- Ran 3 local camps and 10+ competitive events as part of community outreach to introduce and build a foundation of STEM for 1000+ students.

KSU VEXU Robotics Team

VEX Robotics Team Lead

Marietta, Georgia

Aug 2023 – May 2024

- Coordinated schedules among 50+ team members, organization management, and professors using Slack, Outlook, and Google Calendar to utilize lab space and time efficiently.
- Managed a \$15,000 budget for participation in VEX and Combat Robotics events and outreach.

SKILLS

Languages: Python, Java, C, C++, C#, SQL, HTML, CSS

Libraries and Frameworks: Numpy, Pandas, Matplotlib, Pillow, Scikit, Heroku, Flask

Tools and IDEs: Git, VSCode, IntelliJ, Pycharm, Windows, Linux, VIM, Office Suite, Google Suite, SQL Management Studio