

Krish Katariya

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science, specialization in Artificial Intelligence

May 2026

GPA: 4.0 / 4.0

Courses: Data Structures and Algorithms, Computer Architecture, Objects and Design, Discrete Math, Linear Algebra

EXPERIENCE

Data Signal Processing Research Assistant

June 2022 – July 2023

Akbari Lab At University of Irvine

Irvine, CA

- Employed advanced Python and Matlab programming skills to dissect the complex effects of cardiac arrest on spreading depolarization.
- Worked with the data signal processing team by training on Matlab techniques integral to data signal processing; used Fourier transforms, filter design (low/high pass), time-series analysis
- Leveraged these techniques to enhance the accuracy and reliability of data analysis processes, aiding in the identification of DSP signals

Software Engineer - AI Consultant

March 2024 – Present

Outlier AI

Remote

- Writing complex code to help increase the accuracy and train AI large language models
- Writing test cases to confirm code outputs of LLM's works efficiently and effectively, writing code in Python, Javascript, and C++

Software Engineer Internship

Jun 2022 – Oct 2022

Alexander Technical Institute

Santa Ana, CA

- Developed a full stack web application built to provide a training course platform to learn paint chemistry
- Utilized React and Javascript to build a Single Page Application utilizing PostgreSQL to retain user data

PROJECTS

Project Iris | *Python, Tensorflow, Unity, C#*

- Used machine learning techniques such as semantic segmentation in order to analyze eye movement patterns in order to determine what specific variables they need to work on in their driving
- Leveraged Python and Tensorflow to build Mask Region Based Convolutional Neural Networks that semantically segment pixels into their respective objects
- Created Unity Driving Simulation using C# to collect eye-location data

KatZip | *C++, Data Structures and Algorithms*

- Used C++ to read bytestreams of files in order to compress files into a custom .kat compressed files for optimized storage
- Implemented the Huffman coding algorithm in KatZip to efficiently compress data by assigning variable-length codes based on character frequency, significantly reducing file sizes while enhancing understanding of data compression techniques.

krishkat.dev | *NextJS, Typescript, REST API*

- Created personal website in NextJS displaying personal achievements and projects utilizing Typescript and Javascript
- Integrated both client side and server side rendering, fetching project information automatically from Github REST API and defining API endpoints for client-side to fetch from server components

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, C#, JavaScript, HTML/CSS, R

Machine Learning: Pytorch, Tensorflow, Numpy, Pandas, Computer Vision

Frameworks: React, NextJS, Node.js, TailwindCSS

Developer Tools: Git, Docker