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

IBM WeatherGen Intern   May 2024 - August 2024
GT Virtual Summer Internship Program   *Remote*
- Collaborated with IBM Researchers and GT on predicting and interpolating on paths of storms
- Employed Python & Tensorflow to build Variational Autoencoders (VAE) that can generate paths for precipitation between precipitation fields
- Containerized stochastic weather generation application using docker Debian containers and Python runtime

IBM Research Assistant   August 2024 – Present
IBM Research Brazil   *Remote*
- Continuing research of semantic interpolation and weather fields under Jorge Guevara, using Generative Adversarial Networks (GANs) to generate realistic weather fields and extreme weather data

Software Engineer - AI Consultant   March 2024 – Present
Outlier AI   *Remote*
- Contracted by OpenAI to write test cases to confirm code outputs of models efficiently in C++, Java, and Go
- Engineered complex code to help increase the accuracy and train AI large language models

Software Engineer Internship   Jun 2022 – Oct 2022
Alexander Technical Institute   *Santa Ana, CA*
- Designed a full stack web application built to provide a training course platform to learn paint chemistry
- Implemented a Single Page Application using React and Javascript with PostgreSQL to retain user data

PROJECTS

Syncode | *Golang, AWS Lambda, MySQL, AWS S3, AWS CloudFront, AWS APIGateway, React*
- Created a React SPA portal with OAuth workflow to manage CS assignments with autograding features
- Built a REST API using Golang, AWS Lambda, and AWS API Gateway to manage application logic and built microservices to manage database
- Developed microservices in Java to handle class submissions and grading, and utilized a Content Delivery Network (CDN) with AWS S3 & Cloudfront to store submitted code, and Azure MySQL database to manage user data

Project Iris | *Python, Tensorflow, Unity, C# - **Research Award from International Research Institute of NC***
- Utilized Python and Pytorch to build Convolutional Neural Networks that semantically segment pixels and analyzed eye movement patterns to determine what specific driving variables they need to work on

Katzip | *C++, Data Structures and Algorithms*
- Implemented 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

ScreenMemo | *Python, Llama3.1, LangChain*
- Built python CLI application to capture information from screen periodically and create a memo of daily tasks throughout the day
- Utilized LangChain to run Llama3.1 locally, and implemented character recognition (OCR) in Python

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, Golang, JavaScript, Typescript, HTML/CSS
Machine Learning: Pytorch, Tensorflow, Numpy, Pandas, Sklearn, CV, GANs, Natural Language Processing
Frameworks: React, NextJS, Node.js, TailwindCSS, OpenTelemetry