

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 & Algorithms, Computer Architecture, Design & Analysis of Algorithms, Computer Systems & Networks, Intro to AI, Perception and Robotics, Objects and Design, Discrete Math, Linear Algebra

EXPERIENCE

Undergraduate Distributed Systems Researcher

February 2025 – Present

Apache Airavata Project, Gatech ARTISAN center

Atlanta, GA

- Contributing to open-source large-scale distributed computing solutions for scientific workflows, optimizing data processing pipelines for real-time migration in Java
- Leading migration of Terraform configurations to OpenTofu for Apache Airavata's cloud resource provisioning

Interns for Open Source

September 2024 – December 2024

CNCF (Cloud Native Computing Foundation) Kubestellar Project

Remote

- Building scalable Kubernetes-based infrastructure for real-time application deployment, contributing to large-scale orchestration and automation using Golang, Perl, and Bash
- Creating React portal to communicate with Kubernetes API and create dashboard of current clusters running

Gatech/IBM Virtual Summer Internship

May 2024 - August 2024

Gatech Open Source Researcher

Irvine, CA

- Collaborated with IBM Researchers and GT on Computer Vision methods, employing Python & Tensorflow to build Variational Autoencoders (VAE) for generating storm paths
- Containerized stochastic weather generation application using docker Debian containers and Python runtime

Software Engineer Internship

Dec 2023 – April 2024

Alexander Technical Institute

Remote

- Built a React application using Typescript to teach paint chemistry interactively, utilizing Node.js backend and Github Actions CI/CD
- Implemented PostgreSQL to retain user data, AWS Lambda for grading tests/assignments, & JWT Tokens

PROJECTS

BuzzLine | *Next.js, React, Firebase, Google Maps, NASA API, Gemini AI*

- Won 1st place **Google "Build With AI"** award in WooHackathon
- Developed an AI-powered emergency assistance platform that aggregates dynamic recommendations for safe routes, essential amenities, and real-time hazard alerts—leveraging data from NASA Landsat and Google Maps API Data
- Implemented interactive mapping overlays with Google Maps API and Turf.js, and harnessed Gemini AI to generate smart content and explanations that enhance transparency in emergency response recommendations.

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 distributed cloud-based system for large-scale real-time code compilation and grading, optimizing data flow with AWS Lambda, API Gateway, and Golang microservices
- 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

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, Golang, JavaScript, Typescript, HTML/CSS

Distributed Systems & Data Processing: Apache Spark, Apache Airavata, Hadoop, AWS Glue

Frameworks: React, NextJS, Node.js, TailwindCSS, OpenTelemetry, AWS Cloud