

# Krish Katariya

949-378-0266 | [krishkatariya@gmail.com](mailto:krishkatariya@gmail.com) | [krishkat.dev](https://krishkat.dev) | [linkedin.com/in/krishkatariya](https://linkedin.com/in/krishkatariya) | [github.com/katamyra](https://github.com/katamyra)

## 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
- Leading migration of Terraform configurations to OpenTofu for Apache Airavata's cloud resource provisioning

### Interns for Open Source

September 2024 – Present

*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

### IBM/Gatech Virtual Summer Internship

May 2024 - August 2024

*Gatech Open Source Researcher*

*Irvine, CA*

- Collaborated with IBM Researchers and GT on Computer Vision and GenAI methods, employing Python & Tensorflow to build Variational Autoencoders (VAE) for generating storm paths
- Implemented multiprocessing to parallelize weather data generation, netting a 27% weather generation speedup
- 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 Github Actions CI/CD
- Implemented PostgreSQL to retain user data, AWS Lambda for grading tests/assignments, & JWT Tokens

## 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 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

### EcoFlow | *Python, AWS ECS, Docker*

- Developed a real time environmental monitoring system that tracks air quality across multiple locations, using AWS ECS for scalable microservice architecture using Dockerized services
- Built CI/CD pipeline with Github Actions, automating testing, building docker Images, and deploying services to ECS

## 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