

# Kaustubh Uday Kulkarni

(612) 513-6907 | [kulkulkar@asu.edu](mailto:kulkulkar@asu.edu) | [kaustubhuk8.github.io](https://kaustubhuk8.github.io) | [github.com/kaustubhuk8](https://github.com/kaustubhuk8) |  
[linkedin.com/in/kaustubh-u-kulkarni](https://linkedin.com/in/kaustubh-u-kulkarni)

## EDUCATION

### Master of Science, Computer Science

Arizona State University

August 2025

Tempe

### Bachelor of Engineering, Computer Science

PES Institute of Technology

August 2021

Bengaluru

## SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript, Go, C++, SQL, C, HTML, CSS

**Frameworks and Libraries:** Django, Flask, React, Next.js, Remix.js, Supabase, Flask

**Tools and Technologies:** Docker, Kubernetes, AWS (Lambda, API Gateway, DynamoDB, SQS, EC2), GitHub Actions

**Databases:** MySQL, PostgreSQL

**Soft Skills:** Cross-Functional Collaboration, Communication, Decision Making, Leadership

## PROFESSIONAL EXPERIENCE

### Software Developer

August 2021 - May 2023

Comono India

Bengaluru

- Developed a responsive web platform using React and JavaScript, later transitioning to Remix and TypeScript.
- Implemented dynamic routing and server-side rendering for improved SEO and faster page loads.
- Integrated TailwindCSS for consistent styling and maintainable component design.
- Integrated Docker with CI/CD pipelines using GitHub Actions, enabling continuous deployment with zero downtime and enhancing system reliability by 30%.
- Designed and managed database architecture using PostgreSQL and Supabase, implementing row-level security policies for enhanced data protection.

### Student Intern

December 2020 - April 2021

Global Discovery Academy

Bengaluru

- Developed and implemented a comprehensive REST API system using Django REST Framework, achieving 40% faster response times through efficient database query optimization and connection pooling
- Architected and executed a robust data migration pipeline processing educational data for 7+ schools, implementing automated validation checks and error handling that improved processing speed by 60%
- Engineered an efficient student data processing system using Python and OpenPyXL, handling complex Excel data transformations while maintaining data integrity across multiple school databases
- Implemented secure user authentication and authorization system supporting multiple user roles with JWT token-based authentication

## RESEARCH AND ACADEMIC EXPERIENCE

### Elastic Cloud Application

December 2023 – December 2023

Web Applications

Tempe

- Architected a serverless video analysis pipeline using Docker, AWS Lambda, EC2, S3, and SQS.
- Engineered an auto-scaling infrastructure using EC2, SQS queues, CloudWatch that efficiently processed 10,000 video frames while maintaining consistent performance
- Designed and deployed containerized face recognition services on EC2 instances that efficiently processed 100 concurrent video requests within a 300-second timeframe, ensuring reliable performance.
- Utilized multi-stage Docker builds reducing image sizes by 60%, improving deployment speed and reducing costs.

### Personal Portfolio Website

January 2024 – March 2024

Web Applications

Tempe

- Developed a React-based portfolio site with engaging animations and 3D Technologies using React-Framer.
- Utilized HTML, CSS, and JavaScript for responsive design, integrating Tailwind CSS for styling.
- Implemented a functional Contact Me section using email.js for seamless communication.