Kaustubh Uday Kulkarni

(612) 513-6907 | kukulkar@asu.edu | kaustubhuk8.github.io | github.com/kaustubhuk8 |
linkedin.com/in/kaustubh-u-kulkarni

EDUCATION

Master of Science, Computer Science **August 2025**
Arizona State University **Tempe**
Bachelor of Engineering, Computer Science **August 2021**
PES Institute of Technology **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 deployed Kubernetes clusters supporting 5 development teams, automating application deployment.
- Engineered automated data migration scripts improving processing speed by 60% across 7 schools.
- Orchestrated MySQL database design and optimization, improving data accessibility for 20+ employees.
- Implemented RESTful APIs using Django REST Framework, achieving 40% improvement in response times.

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.

Interactive Career Journey Visualization **March 2024**
Web Applications **Tempe**
- Developed an interactive tree diagram using D3.js to visually represent professional journey.
- Implemented interactive node functionality with custom styling for dynamic career progression visualization.