SHREEKRISHNA UDUPA

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Other Relevant Links: Linkedin   Github   Leetcode

EDUCATION

Mithibai College: Bachelor's Degree in Computer Science (2023 - 2027)

PROJECTS

OBE SOFTWARE
Skills - React, TailwindCss, Node.js, MongoDB, Github Actions, AWS - S3, Amplify, Cloudfront, API Gateway, Lambda

- Architect & Lead Developer of a comprehensive & scalable OBE (Outcome Based Education) system that streamlines attainment analysis, and automated report generation at the course, program, and branch levels from students' marks within a single click.
- Approved for deployment by SVKM's Mithibai College & SVKM Institution, with rollout by Jan 15.
- Designed scalable modules for attainment calculation, curriculum mapping, and performance visualization, enabling data-driven decision-making for administrators & colleges.

Anial - An Object Oriented Programming Language
Skills - C++, LLVM, Compiler Design

- Designed & Developed Anial, a fully object-oriented, low-level programming language.
- Demonstrates detailed experience in compiler design, object oriented paradigm, and language architecture
- Currently building intermediate representation (IR) generation for cross-platform compatibility with deployment expected on the end of January.

Online Coding Contest Platform
Skills - React, TailwindCss, Node.js, PostgreSQL, Docker, Kubernetes, Redis, RabbitMQ, AWS - EKS, Fargate

- Designed & developed a scalable online coding contest platform that implements a modular micro-services architecture with Kubernetes, RabbitMQ and AWS EKS/Fargate for seamless elastic scaling (horizonatal & vertical).
- Built an end-to-end highly scalable system across frontend, backend and database layers using sharding, consistent hashing, distributed caching, and message-driven workflows to ensure low latency and fault tolerant execution.
- Implemented secure, standards-based authentication and authorization with OAuth2.0, OIDC & JWT, integrating zero-trust principles to protect user sessions in a distributed environment.

Implementation of a CI/CD pipeline for a Ios Application
Skills - Flutter, Codemagic CI/CD

- Implementing a CI/CD pipeline of an IOS application for BSKBA Gokul, including build automation, testing and distribution.
- Contributing in a part-time, project based capacity while remaining fully available for new roles.