

Floyd Carlo

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EDUCATION

Fr. Conceicao Rodrigues Institute of Technology

B.E. in Information Technology

Navi Mumbai, MH

Aug. 2023 – Aug. 2027

St. Andrew's College of Arts, Science and Commerce

PCM with Computer Science

Mumbai, MH

2021 – 2023

EXPERIENCE

Web Developer – College Portal | ims.fcrit.ac.in

Fr. Conceicao Rodrigues Institute of Technology

Aug. 2025 – May 2026

Navi Mumbai, MH

- Developing and maintaining the live college portal (PHP, MySQL) serving students, faculty, and administration
- Migrating existing PHP codebase to Laravel with MVC architecture and Eloquent ORM for improved maintainability
- Optimizing MySQL schema and queries to improve portal performance and reliability under concurrent load

ACHIEVEMENTS

Finalist – KnowCode 3.0 | K. J. Somaiya Institute of Technology

2025

APIBazaar – Cloud-native API deployment platform | [GitHub](#)

- Built a platform that transforms API documentation into live, deployable services instantly using Kubernetes and Docker
- Designed automated pipeline to parse API specs and provision containerized endpoints on demand

Second Runner-Up – Ideathon 2025

2025

Monsoon Safety System for Mumbai

- Designed hardware-software integrated safety system with smart sensors, AR navigation, and automated SOS alerts

PROJECTS

Code Execution Engine | *React, Node.js, Express.js, Docker, Redis* | [GitHub](#)

2025

- Built LeetCode-style in-browser code runner supporting Python, JS, Java, and C++ with isolated Docker sandboxes
- Implemented Redis caching to eliminate redundant executions and enforced container-level memory/time/network limits
- Integrated Big-O complexity analyzer via AST parsing; built React frontend with real-time execution output display

Serverless URL Shortener | *AWS Lambda, API Gateway, DynamoDB, Cloudflare* | [Live](#)

2024

- Built serverless URL shortener with AWS Lambda, API Gateway, and DynamoDB; edge routing via Cloudflare Workers
- Deployed responsive frontend on Cloudflare Pages with a scalable, pay-per-use backend architecture

CERTIFICATIONS

AWS Cloud Practitioner Essentials (2024): EC2, S3, RDS, Lambda, Security & Compliance, Billing & Pricing
Getting Started with DevOps on AWS (2024): CI/CD Pipeline Automation, AWS DevOps Services, ALM

TECHNICAL SKILLS

Languages: Python, Go, PHP, JavaScript

Frameworks & Libraries: React, Node.js, Laravel, Flask, Express.js

Databases: MySQL, MongoDB, Redis, DynamoDB

DevOps & Cloud: Git, Docker, Kubernetes, Linux, AWS (EC2, Lambda, S3, API Gateway), Terraform, Jenkins