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GitHub: [synapsecode](https://github.com/synapsecode)

Portfolio Website

EDUCATION

Dayananda Sagar College of Engineering (DSCE)

Bachelor of Engineering in Computer Science (CGPA: 9.11)

Bengaluru, KA

2022 – 2026

TECHNICAL SKILLS

Languages: Python, Dart, Java, JavaScript, HTML, CSS, SQL

Frameworks/Technologies: Flutter, Flask, FastAPI, Next.js, React, Celery, Redis

Databases/Tools: Git, Docker, Supabase, Firebase, MongoDB, PostgreSQL, Judge0, Dify

EXPERIENCE

Crezam

Oct 2022 – Present

SDE | Python, Flask, Celery, Redis, Docker, Flutter

Bengaluru, KA

- Led development of an advanced **AI-powered proctoring engine** with face, voice, and focus loss detection, reducing cheating incidents by **70%**.
- Built and productionized a scalable **FFMPEG interview video recording pipeline (Flask + Celery + Azure)**, resulting in **5+ new clients** and measureable product adoption
- Designed and deployed a **report generation service** with templating, PDF generation via Playwright, and bulk report creation using Celery, cutting turnaround time by **80%**.
- Architected secure **REST APIs & Microservices** with built-in retry logic and custom validation, increasing response accuracy and lowering latency by **25%** for AI Agent calls.
- Engineered a platform-wide bi-directional **AES encryption** mechanism ensuring end-to-end payload security.
- Managed a team of **3** developers, reducing issue tickets by **30%**, driving faster releases, and improving collaboration with bi-weekly code-reviews.
- Automated deployments with **shell scripts**, eliminating manual work and achieving **>95%** success rate.

API Dash — Google Summer of Code (GSoC'25)

May 2025 - Sept 2025

Open Source Contributor | Flutter, Dart, SDUI, Generative AI

Remote

- Developed the `better_networking` package with **95% test coverage** and **Server-Sent Events (SSE)** support
- Created a provider-agnostic `genai` package with support for **AI Requests**, **AI Agents**, and an in-app **API Tool Generator**.
- Developed an **AI UI Designer** transforming API responses into **SDUI Flutter widgets** with natural-language styling and one-click Flutter export.

PROJECTS

MITMShield | Python, Swift, VisionKit, mitmproxy

[Link](#)

- Built a man-in-the-middle proxy with **steganographic watermarking** to track and catch malicious insiders, helping prevent confidential code or data from being leaked outside the organization's perimeter
- optimized Apple's **VisionKit** OCR Engine to extract code with indentation, spacing and more

MicroBlogger | Flutter, Flask, Python, Cloudinary, SQLAlchemy

[Link](#)

- Built a full-stack cross-platform microblogging platform using **Flutter**, **Flask**, and **SQLAlchemy**, with media management via **Cloudinary**.
- Implemented features including microblogs, full-length blogs, polls, timelines, carousels, hashtags, and account functionalities (follow/unfollow, tagging).

ACHIEVEMENTS

- 1st Place**, Appify 2024 by B.M.S College of Engineering
- 3rd Place**, Aventus 2025 Hackathon
- Finalist(Top 10)**, Sandbox 2025 Hackathon