SUDHESH HEGDE

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PROFILE SUMMARY

Computer Science graduate with professional experience in full stack (backend heavy) software engineering, building robust & scalable software, working across stack from WebUI to cloud infrastructure.

EDUCATION

Bachelor of Engineering (BE) in Computer Science & Engineering   **12/2021- 06/2025**
AMC Engineering College, Visvesvaraya Technological University |Bengaluru, Karnataka
Coursework: Operating Systems, Compiler Design, Data Structures & Algorithms, Database Management
CGPA : 8.84

PCMCS   **04/2019- 07/2021**
Chaitanya PU College |Sirsi, Karnataka
Grade: 87.1%

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, JavaScript; HTML, CSS, SQL
Frameworks & Libraries: ReactJS, React Native, Redux, Express.js, Flask, Quart
Technologies: Github Actions, Git, Microsoft Azure, Google Cloud, Docker, MongoDB, MySQL, Faiss, Qdrant, Firebase, Xcode
Paradigms: Test-driven development, Object-oriented design, Continuous Integration & Continuous Delivery (CI/CD), Agile Development, Multi-cloud platform development

WORK EXPERIENCE

Software Engineer, Shramajeevi Television Pvt Ltd, Bengaluru   **07/2025 - Present**

- Developed a Retrieval-Augmented Generation system: retrieved relevant video transcripts and used LLMs to **answer questions with >85% accuracy** in internal testing.
- Built Auto-Clip, an AI-powered desktop video clipping tool that used **speech-to-text + audio analysis**, reducing manual editing time by **>70%**.
- Developed a **custom video streaming server**, replacing Vimeo and reducing platform costs by **~40%**, while giving the company full control over video delivery.
- Consolidated services under Microsoft Azure, streamlining infra management and reducing platform costs by **~30%**.
- Created a cloud-backed image gallery with server-side caching, improving image load times by **3x**.

App-Development Intern, Shramajeevi Television Pvt Ltd, Bengaluru   **09/2024 - 06/2025**

- Built bookmarking, deep linking, and native push notifications, improving **user engagement by ~25%**
- Designed and implemented AI powered search across 4,000+ agriculture videos, enabling efficient retrieval and improving content discovery speed.
- Enhanced app usability by streamlining navigation and content discovery, leading to **higher DAUs.**

PROJECTS

- **DigDeep** : Standalone desktop application for offline contextual image search, built with PyQt5 GUI + OpenAI CLIP model in Python; leverages local embeddings and efficient retrieval for on-device performance.
- **FLvcs** : Desktop app for FL Studio project version control, built with Python + PyQt5; supports snapshot capture and JSON-based commit history
- **Apta-Auth** : Cross-platform authenticator app built with React Native**,** featuring OTP verification and secure sign-in**,** deployed for internal stakeholders at Aptamitra Software Solutions.