Subhrajit Prusty

SOFTWARE ENGINEER

Bengaluru

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Experience

skit.ai   *Bengaluru*

SOFTWARE DEVELOPER - PRODUCT   *November 2022 - Present*

- Led development of an LLM Voicebot in Golang, which has since handled almost half a million calls across 40+ clients.
- Designed and implemented a bidirectional audio streaming telephony stack with gRPC for real-time voice interactions.
- Optimized flow-loading, reducing memory usage by 80%.
- Developed a flow configuration validation service, eliminating config-related incidents.
- Maintained and enhanced the voicebot dialogue management system, improving reliability and efficiency.
- Drove the migration to a Python-based stack using Pipecat, improving modularity, STT/TTS flexibility, and long-term maintainability.

skit.ai   *Bengaluru*

SOFTWARE DEVELOPER - DELIVERY   *December 2020 - October 2022*

- Owned and maintained a critical internal repository, establishing code review processes and authoring contribution guidelines—significantly improving code quality and reducing technical debt.
- Introduced testing frameworks, leading to more reliable and maintainable code.
- Designed and optimized voicebot flow configurations in collaboration with cross-functional teams.
- Developed 3rd-party API integrations, streamlining client onboarding.
- Enhanced build pipelines, reducing deployment time and improving CI/CD efficiency.

racetrack.ai (Internship)   *Bengaluru*

RESEARCH AND DEVELOPMENT TEAM   *August 2019 - March 2020*

- Contributed to backend development of an AI chatbot.
- Researched and published an abstract on Personalized Hybrid-Recommender Systems using social network analysis.
- Developed a minor claims automation service for car accident processing, improving claim resolution efficiency.

ITC Infotech, Innoruption Lab (Internship)   *Bengaluru*

RESEARCH AND DEVELOPMENT TEAM   *May 2019 - July 2019*

- Developed image processing automation projects, including metal sheet counting.
- Built an identity card detail extraction system, optimizing concierge check-in processes.

Education

Institute of Technical Education and Research (ITER)   *Bhubaneswar*

B.TECH IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY   *2016 - 2020*

- CGPA : 8.72

Skills

Languages   Go, Python, Bash

AI/ML   LLM Integration (OpenAI, LangChain), Speech-to-Text (STT), Text-to-Speech (TTS)

Backend   gRPC, REST, WebSocket, Flask, Django, PostgreSQL, Redis

DevOps   CI/CD, Docker, Kubernetes, AWS, SIP/RTP, Real-time Telephony Streaming

Honors & Awards

2018	**1st runner-up,** ITC Infotech Hackathon	*Bengaluru*
2018	**Most Innovative Idea,** Hackerwar Hackathon, SOA University	*Bhubaneswar*
2016	**1st runner-up,** Quantum Code by IIT Bombay - Techfest	*Bhubaneswar*