

# Swarnnika Raj Singh

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## Skills

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**Languages & Frameworks:** JavaScript, Python, Golang, TypeScript, ReactJs, NextJs

**Technologies & Tools:** Docker, Kubernetes, AWS, EC2, S3, SQS, Lambda, GCP, Compute Engine, Cloud Run, Azure, Redis, Queue, PubSub, Linux

## Work Experience.

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### UST, Bangalore

June 2024 - Present

#### Software Development Engineer(III)

- Led the migration on premise frontend, backend applications to AWS, significantly reducing operational costs by more than 40% and enhanced scalability.
- Implemented Cloudwatch-to-S3 data pipeline, enabling real time application performance tracking via QuickSight dashboard. Improved user engagement by 30% by identifying and resolving issues from the logs insights.
- Built a RAG based chatbot for intelligent documentation search.
- Python, AWS, EC2, S3, Lambda, AWS Batch, QuickSingh, ReactJs, Langchain, OpenAI, Pinecone, NodeJs, LLM, Golang

### HealthworksAi, Remote

Dec 2022 - May 2024

#### Software Development Engineer (II)

- Designed and developed a no-code analytics dashboard platform leveraging micro-services architecture.
- Migrated backend APIs to Azure serverless function apps, reducing operational costs by 30% and improving scalability. Dockerized frontend applications and transitioned them to Azure container apps.
- Developed an internal admin panel for managing central hub configurations and client onboarding, streamlining administrative tasks and improving operational efficiency.
- Built a central hub for accessing company products and services. Implemented authentication, authorisation, and remote application integration features, along with fully customisable and personalised user access. resulting in a 50% Increment in user engagement.
- Python, NodeJs, TypeScript, Azure, AWS, Lambda, S3, React, NextJs, Microservices, Microfrontends, Docker, Golang, Container apps.

### Omnicell, Bangalore

Mar 2022 - Aug 2022

#### Software Development Engineer (I)

- Developed a ticketing system to streamline issue tracking and resolution. Designed and implemented a real time notification system across frontend and backend.
- Microservices, Websocket, NodeJs, React, AWS SNS, SQS, Event-driven architecture, Docker

## Education

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### National Institute of Food Technology Entrepreneurship and management, Sonipat

Aug 2017 - Jun 2021  
**CGPA: 8.30/10**

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Linux.

## Project Work

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- **AI Powered Real time chat application (2025):** Designed and Developed real-time chat app provides secure authentication using face recognition, real-time messaging with WebSockets, group chat management, and integrated speech-to-text functionality. This application leverages AWS Rekognition for face matching and Google Speech-to-Text API for audio transcription. Used Python, Nextjs, Nodejs, Typescript, Google speech-to-text, AWS Rekognition, gcp storage bucket, cloud run functions, redis
- **AI Powered Content Creation Platform (2025):** Designed and Developed subscription based platform offering AI-powered tools YouTubers and content creators. Beta launched with 9-10 early adapters. Receiving positive feedback. Demonstrated potential to reduce content creation time by 20-30%. Used Python, Nextjs, Nodejs, gap, TTS models, FFMPEG, Razorpay for payments, gcp storage bucket, cloud run functions, OpenAI API.
- **One click deployment for Web application (2024):** Designed and built a Vercel like platform enabling developers to deploy frontend with a single click, providing seamless CI/CD, ensuring availability 99.9% uptime. Technologies used: NodeJs, NextJs, AWS batch, Docker, S3, SQS message queue, Redis, Pubsub,
- **NFT Minter Platform(10k NFT Collection on Ethereum Mainnet-3k + Minters) (2024):** Developed a full stack NFT Minting Platform, enabling user to mint NFTs ERC71 on ethereum mainnet. Integrated ipfs. Smart contract deployed and wallet connectivity for seamless minting. 3k+ user minted NFTs, contributing to 15 ETH in transaction volume.