

Asmi Gemini

SOFTWARE ENGINEER

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Professional Summary

Software Engineer with experience building cloud automation and machine learning solutions across enterprise software, healthcare AI, and quantum computing research. Currently building and deploying a B2B cloud migration platform that automates AWS-to-GCP workload migration. Experienced in Python, machine learning, PyTorch, Scikit-learn, FastAPI, Docker, Celery, Redis, Boto3, and cloud infrastructure automation. Developed a histopathology cancer classification system using Multiple Instance Learning and hold an Indian patent for an IoT-based smart safety system.

Experience

Artificial Intelligence Engineer

July 2026 to Present

MULTITV - Gurugram, Haryana

- Built and deployed CloudShift, a B2B cloud migration platform that simplifies AWS-to-GCP workload migration through a one-click migration workflow.
- Developed migration workflows for AWS EC2, ECS, EKS, ECR, and Lambda, automating resource discovery and migration to corresponding GCP services.
- Implemented migration workflows using Python, Boto3, FastAPI, Celery, and Redis, supporting long-running migration operations through asynchronous task processing.
- Integrated Google Cloud's Migrate to Virtual Machines (M2VM) workflow for compute migration, including source creation/reuse, initial synchronisation, continuous replication, final synchronisation, cutover, validation, and migration report generation.
- Containerised and deployed the application using Docker and Docker Compose on a Linux-based production server, and manage application deployments and server operations.
- Built the product interface and integrated it with backend migration services to provide a self-service migration experience.

AI Intern

January 2026 to July 2026

PROTIVITI - Noida, Delhi

- Built supervised machine learning models on structured enterprise datasets containing 10K–14K+ records, achieving 83.7% classification accuracy.
- Developed feature engineering and preprocessing pipelines using Python, Pandas, NumPy, and Scikit-learn to improve model consistency across datasets.
- Automated data preprocessing and reporting workflows, reducing turnaround time from 2 days to 2 hours.
- Collaborated with cross-functional stakeholders to translate business requirements into data-driven machine learning solutions.

Research Intern

May 2025 to July 2025

DRDO - Metcalfe House, Delhi

- Implemented and experimented with quantum algorithms using Qiskit and simulated quantum circuits for cryptographic research.
- Studied post-quantum cryptographic techniques and evaluated their resilience against quantum attack models including Shor's and Grover's algorithms.
- Contributed to research and documentation on quantum-safe approaches for secure communication systems.

Education

B.Tech.: Computer Science (Core), January 2026

VELLORE INSTITUTE OF TECHNOLOGY

- CGPA: 8.61

Class XII : CBSE, April 2022

BAL BHARATI PUBLIC SCHOOL

- Final Grade: 94.3%

Class X : CBSE

BAL BHARATI PUBLIC SCHOOL

- Final Grade: 95.6%

Skills

• Python	• Boto3	• FastAPI	• Docker
• Docker Compose	• Celery	• Redis	• AWS
• GCP	• SQL	• PostgreSQL	• MySQL
• SQLite	• Data structures	• Database management	• CNNs
• Instance-based learning	• Model Evaluation	• Generative models	• Large language models
• Qiskit	• Quantum cryptography	• Software engineering	• Software development
• Linux	• Terraform	• Team collaboration	• Analytical thinking
• Problem-solving	• Analytical methods		

Projects And Patents

SMART HELMET SYSTEM — Indian Patent

Published 2026

- Designed an Arduino-based smart helmet integrating MQ-3 alcohol sensing, IR-based monitoring, and relay-controlled ignition logic.
- Implemented automated safety logic to prevent vehicle operation when alcohol consumption or unsafe helmet conditions were detected.

MENTAL HEALTH SUPPORT PLATFORM

- Developed a mood analysis and well-being tracking platform using Python, Flask, SQLite, and TextBlob for sentiment classification and emotional trend analysis.
- Implemented REST-based backend functionality and a web interface for tracking user sentiment.

Leadership and Achievements

Dramatics Club, VIT — Actor, Director & Scriptwriter (2023–25)

- Directed and performed in productions placing at 8 national fests, including IIT Madras, IIT Bombay, IIT Delhi, NIT Trichy, SRM Chennai, VIT Vellore, and BITS Hyderabad.
- Led and mentored teams of 20+ members across multiple productions and managed club finances, sponsorship outreach, and budget allocation.

SEDS VIT — Gravitas Event Host & Organiser (2023)

- Hosted technical events and interactive space demonstrations for 100+ participants.

Certifications

- Generative and Agentic AI, and Machine Learning – Techobytes, IIT Delhi, Microsoft (2026)
- Quantum Computing & Post Quantum Cryptography – IBM, Packt, Fractal Analytics (2025)
- Generative AI Foundations – IBM (2024)
- AICTE Recognised Space Internship (80+ Hours) – Agnirva Space (2025)