

TECHNICAL SKILLS

Programming & Tools: C, C++, Python, SQL, SAP ABAP, SAP BASIS, Hadoop, AWS, Linux, Git, GitHub, VS Code, Xcode, OpenGL, WebGL, Microsoft Office
SAP Basis Administration: System Monitoring, Kernel Upgrades, Transport Management, SAP Security
Cloud & Data Engineering: AWS Cloud Management, Data Analytics, ETL Processes
Deep Learning & AI: U-Net, SageMaker, Gen AI, LLM Fine-Tuning, Amazon BedRock, Amazon PartyRock, Amazon Whisperer, Prompt engineering
Soft Skills: Problem Solving, Adaptability, Time Management, Leadership, Communication

PROFESSIONAL EXPERIENCE

INFOSYS PVT LTD, India

Senior Software Engineer

Feb 2020 – Jan 2023

- SAP System Administration:** Managed full **SAP system lifecycle** (installation, configuration, upgrades, migrations) across **production, development, and quality environments**.
- System Performance Optimization:** Conducted health checks, implemented **performance tuning**, educing system downtime by **20%**, improving reliability and user satisfaction.
- SAP Security & Compliance:** Configured **security roles, authorizations, transport requests**, and access controls to ensure **data integrity and compliance**.
- System Monitoring & Troubleshooting:** Utilized **diagnostic tools** and **system logs** to identify performance bottlenecks, collaborating with teams to resolve technical issues.
- Automated Background Job Management:** Scheduled and monitored **background jobs**, preventing failures and ensuring efficient task execution.
- Cross-Functional Collaboration:** Partnered with **business analysts, account managers, and infrastructure teams** to align SAP systems with business requirements.
- Transport Management Processes:** Managed **Transport management systems (TMS)** to streamline **code promotions**, improving project efficiency.
- Documentation & Reporting:** Maintained **comprehensive system documentation**, technical processes, and provided stakeholders with **regular updates** on system health and upgrades.

PROJECTS

Semantic Segmentation for Scene Understanding in Autonomous Vehicles using U-Net

- Developed a **U-Net-based** semantic segmentation model for autonomous vehicles, performing data augmentation on Cityscapes datasets.
- Implemented **pixel-wise classification**, enabling real-time segmentation of road scenes to detect pedestrians, vehicles and road signs.
- Optimized performance using **GPU acceleration, hyperparameter tuning**, and evaluated key metrics like **IOU (Intersection over Union)** and **mean accuracy**.
- Technologies:** U-Net, Cityscapes dataset, GPU acceleration, Docker.

Big Data Analytics Using Hadoop

- Utilized **Hadoop ecosystem tools** (Hive, Spark) for **large-scale data processing** and **efficient storage** using HDFS.
- Designed **ETL pipelines** for structured data processing, enabling **real-time analytics and decision-making**.
- Technologies:** Hadoop, Hive, Spark, HDFS, ETL Pipelines

Domain Specific Expert Model (Nano Degree)

- Fine-tuned a **Llama 2 model** on datasets from **medical, finance, and IT** domains for **domain-specific text classification**.
- Deployed the **optimized model** using **AWS SageMaker**, improving accuracy and inference performance.
- Technologies:** AWS SageMaker, Llama 2, Jupyter.

iOS Application Development

- Developed **Medilook**, an iOS app that provides **medication details** using the **Open FDA API**.
- Built **Instancify**, an AWS cost-management app, enabling **EC2 instance tracking**, helping users save **\$50–\$100/month**.
- Technologies:** Xcode, Cursor AI, Open FDA API, Firebase, AWS, Google Cloud Platform.

Virtual Reality Interface to Algorand Application using A-Frame:

- Developed an **interactive VR interface** for visualizing Algorand blockchain transactions using **A-Frame and Three.js**.
- Integrated **Algorand SDK** to display real-time account activity and smart contract interactions in an immersive 3D environment.
- Technologies:** A-Frame, Three.js, Algorand SDK, WebGL, JavaScript.

EDUCATION

California State University Dominguez Hills

Master of Science in Computer Science,

GPA: 3.50/4.00

Major courses: Advanced Software Engineering, Advanced Programming, Human Computer Interaction and Interface Design

Raghu Engineering College, India

Bachelor of Technology in **Computer Science Engineering**.

Major courses: Python, Computer Organization and operating systems, OOPS by Java

CERTIFICATIONS

- Acquired comprehensive knowledge of cloud computing and machine learning techniques, including model development and deployment using AWS SageMaker.
- Specialized in generative AI and reinforcement learning, optimizing autonomous driving models in the AWS DeepRacer simulator.
- Gained expertise in cloud architecture, modernization strategies, and data processing using Google Cloud platforms.
- Demonstrated proficiency in Python programming for scientific computing, emphasizing algorithm design, data analysis, and computational efficiency.
- Mastered secure operations, cloud security, and data-driven innovation with certifications from AWS and Google Cloud.