

## 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**, reducing 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

- AWS Certified AI Practitioner
- Introducing Generative AI with AWS (UDACITY)
- AWS Academy Graduate – AWS Academy MLU Machine Learning through Application
- Scientific Computing with Python
- Infrastructure and Application Modernization with Google Cloud