

KUMAR HARSH

Computer Science Engineering

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[LinkedIn](#) — [Portfolio](#) —

SUMMARY

Cloud, ML, and Full Stack Developer with internship experience at **Amazon Web Services (AWS)** and **Google for Developers**. Expertise in Cloud Architecture (EC2, S3, Lambda), Machine Learning (TensorFlow, CNN), Full Stack Development (React.js, Node.js, Python), and Mobile App Development (Android, Kotlin). Built AI-powered face verification systems and managed production gaming infrastructure.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science Engineering KIIT University, Bhubaneswar, Odisha, India	2022 – 2026
Senior Secondary Education (12th CBSE) PPM School, Jehanabad, Bihar	2020 – 2021
Secondary Education (10th CBSE) PPM School, Jehanabad, Bihar	2019 – 2020

WORK EXPERIENCE

Cloud Computing Intern Amazon Web Services (AWS) Cloud Program – Remote	October 2024 – December 2024
<ul style="list-style-type: none">Designed and deployed 4 cloud-based solutions using AWS EC2, S3, Lambda, IAM, and VPC servicesCompleted AWS Academy Cloud Foundations and Cloud Architecting certification modulesArchitected 2 serverless solutions using AWS Lambda for cost-efficient infrastructureConfigured 10+ IAM policies and VPC security groups following AWS Well-Architected FrameworkCollaborated with 3 team members to deliver cloud migration projects on schedule	
Android Developer Intern Google for Developers Program – Remote	January 2025 – March 2025
<ul style="list-style-type: none">Developed 2 Android applications using Kotlin, Java, and Android StudioApplied Material Design 3 UI/UX principles for better user experienceIntegrated 3 REST APIs and Firebase for real-time data synchronizationOptimized 5 SQLite queries for faster app performanceUsed Git for version control across 15+ commits	

PROJECTS

AQUA Face Lite – AI Face Verification System <i>Python, TensorFlow, Streamlit, OpenCV, InsightFace</i> AI-based identity authentication system using deep learning and face recognition. <ul style="list-style-type: none">Created ML model using ArcFace algorithm with 95% accuracy on test datasetBuilt Streamlit web UI for real-time face comparisonTested on 200+ face image pairs for validation
GTA V FiveM Custom Roleplay Server <i>Lua, JavaScript, Node.js, MySQL, AWS, Docker</i> Custom multiplayer server with roleplay features and economy system. <ul style="list-style-type: none">Wrote 12 custom Lua scripts for gameplay mechanics and economyManaged AWS VPS and MySQL database for user dataSet up CI/CD pipeline with 20+ automated deployments
Alzheimer Disease Prediction <i>Python, TensorFlow, CNN, Flask, OpenCV</i> ML application for early Alzheimer's detection from brain MRI scans. <ul style="list-style-type: none">Trained CNN model on 800+ medical brain scan images with 88% accuracyDeployed Flask REST API handling 50+ prediction requestsApplied image preprocessing and data augmentation techniques

Game Engine Development

C++, Data Structures, Algorithms, OOP

2D game engine built from scratch with core game development features.

- Engineered modular architecture with 8 core modules using SOLID principles
- Implemented rendering, physics, and input handling systems
- Wrote 2000+ lines of optimized C++ code

SKILLS

Programming Languages: Python, Java, C++, JavaScript, Kotlin, Lua, SQL, HTML, CSS, TypeScript

Machine Learning: TensorFlow, Scikit-learn, OpenCV, CNN, Computer Vision, NLP, Deep Learning, Neural Networks

Cloud Computing: Amazon Web Services (AWS), EC2, S3, Lambda, IAM, VPC, Cloud Architecture, Serverless

DevOps: Docker, Git, GitHub, CI/CD, Linux, Jenkins, Kubernetes

Web Development: React.js, Node.js, Flask, REST APIs, Bootstrap, Express.js

Mobile Development: Android Studio, Kotlin, Java, Firebase, SQLite, Material Design

Databases: MySQL, PostgreSQL, MongoDB, Firebase, NoSQL

Tools: VS Code, Jupyter Notebook, Postman, Jira, Slack, Android Studio

Methodologies: Agile, Scrum, CI/CD, Test-Driven Development, Version Control

CERTIFICATIONS

- AWS Cloud Foundations – Amazon Web Services
- AWS Cloud Architecting – Amazon Web Services
- IBM Cloud Essentials V3 – IBM
- Cybersecurity Analyst Job Simulation – Tata Consultancy Services
- Software Engineering Job Simulation – Wells Fargo
- Introduction to Cyber Security – Infosys
- Cyber Security Awareness Program – NIELIT
- Health System Development Policy & Research – Imperial College London
- Health System Development Introduction – Imperial College London
- Preparing to Manage Human Resources – University of Minnesota
- Managing Employee Performance – University of Minnesota
- Introduction to GitOps (LFS169) – The Linux Foundation