KUMAR HARSH

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PROFESSIONAL SUMMARY

Computer Science Engineering student specializing in Cloud Computing, Machine Learning, and Full Stack Development. Completed 2 internships at AWS Academy and Google Developer programs. Delivered serverless solutions saving 40% costs, built AI systems with 98% accuracy, and launched apps serving 10,000+ users. Skills: Python, Java, AWS, TensorFlow, React.js, Android.

SKILLS

- **Languages:** Python, Java, C++, JavaScript, Kotlin, SQL, TypeScript
- **Cloud:** AWS (Lambda, EC2, S3, IAM), Docker, Kubernetes, Terraform, Linux, Git
- **ML/AI:** TensorFlow, PyTorch, Keras, OpenCV, NumPy, Pandas
- **Web/Mobile:** React.js, Node.js, Flask, Django, REST APIs, Android Studio, Firebase
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite, Redis

PROFESSIONAL EXPERIENCE

Cloud Computing Intern   **October 2024 − December 2024**
Amazon Web Services Academy Program   *Remote*

- Engineered serverless solutions using AWS Lambda, API Gateway, and S3, cutting infrastructure costs by 40%
- Automated CI/CD pipelines with CloudFormation and CodePipeline, reducing deployment time from 2 hours to 15 minutes
- Managed 10,000+ daily API requests with 99.9% uptime using optimized Lambda and CloudWatch alerting
- Configured IAM security policies across 3 production environments, meeting SOC 2 compliance
- Earned AWS Cloud Foundations and Cloud Architecting certifications with 95% scores

Android Developer Intern   **January 2025 − March 2025**
Google for Developers Program   *Remote*

- Published 3 Android apps on Google Play using Kotlin and Jetpack Compose, earning 4.5-star rating
- Decreased crash rate by 60% through exception handling, unit testing, and Firebase Crashlytics
- Boosted user retention by 25% by optimizing SQLite queries, cutting load time by 30%
- Built scalable Firebase backend supporting 500+ daily active users with real-time sync
- Led sprint planning with 5 developers using Agile/Scrum and Git version control

PROJECTS

AI Face Verification System   *Python, TensorFlow, OpenCV, AWS EC2, REST API, Docker*

- Built InsightFace ArcFace model using CNN and transfer learning, reaching 98% verification accuracy
- Crafted image processing pipeline using NumPy and OpenCV, processing 50+ comparisons/minute
- Launched containerized REST API on AWS EC2 with Docker and auto-scaling, handling 1,000+ daily requests

Gaming Server Infrastructure   *Node.js, Express.js, MySQL, AWS, Docker, Linux, WebSocket*

- Architected microservices gaming backend on AWS EC2, supporting 100+ concurrent players
- Generated $5,000+ monthly revenue by coding 20+ gameplay features using Node.js and WebSocket
- Enhanced MySQL performance through indexing and connection pooling, slashing response time by 60%

Healthcare ML Prediction System   *Python, TensorFlow, Keras, Flask, REST API, Pandas, NumPy*

- Trained CNN model using TensorFlow and Keras, reaching 92% accuracy in Alzheimer detection from 5,000+ images
- Developed Flask REST API with authentication, processing 200+ daily predictions with HIPAA compliance
- Streamlined inference time by 45% through TensorFlow Lite, model quantization, and batch processing

EDUCATION

Bachelor of Technology in Computer Science Engineering **2022 − 2026**
KIIT University, Bhubaneswar, Odisha, India
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Cloud Computing, DBMS, OOP, Operating Systems

Senior Secondary Education (12th CBSE) **2020 − 2021**
PPM School, Jehanabad, Bihar

Secondary Education (10th CBSE) **2019 − 2020**
PPM School, Jehanabad, Bihar

CERTIFICATIONS

- AWS Academy Graduate – Cloud Architecting (Amazon Web Services)
- AWS Academy Graduate – Cloud Foundations (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 and 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)