KOUSHIK RAVIKUMAR

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Summary

AWS Certified Software Developer with hands-on experience in software and cloud architecture, full-stack development, and production deployments. Skilled in building enterprise-level applications and automating cloud infrastructure. Eager to contribute to SDE and cloud infrastructure projects using AWS and DevOps best practices.

Education

Stevens Institute of Technology   **September 2024 – December 2025**
Masters of Science in Computer Science   *Hoboken, New Jersey*
PES University   **December 2020 – May 2024**
Bachelor of Technology in Electronics and Communications   *Bangalore, India*

Certifications

Enterprise & Cloud Computing Graduate Certificate Program | *Stevens Institute of Technology*   **December 2025**

AWS Certified Solution Architect - Associate | *Amazon Web Services*   **May 2025**

Experience

Stevens Institute of Technology | *Hoboken, New Jersey*   **September 2025 – Present**
Teaching Assistant (Enterprise and Cloud Computing)

- Assisted 40+ students with projects using BouncyCastle, Payara Micro, and Maven for Java and Android applications
- Guided teams in deploying gRPC-based client-server applications on AWS using Docker with secure configurations
- Conducted weekly 2-hour office hours, providing technical mentorship and troubleshooting support

SellWizr | *Manhattan, New York*   **June 2025 – August 2025**
Summer Internship - Software Development (Infrastructure)

- Built Terraform modules to automate deployment of a 3-tier application, cutting deployment time to under 10 minutes.
- Designed a Kafka-S3 logging system to stream 100K+ user journeys/day to S3 for feedback system training
- Created multiple data scrapers to feed raw data into an S3 data lake via AWS SQS, processing upto 10TB per day

Antwalk | *Bangalore, India*   **December 2023 – July 2024**
Research and Development Intern

- Created competency frameworks for QA, DevOps, Cloud, and SDE roles, for internal training and client onboarding.
- Reviewed and validated cloud and DevOps content with client teams as an SME, ensuring practical applicability.
- Developed prototypes of LLM-based applications using OpenAI API for competency assessment, for client use cases.

Projects

Cross Platform Model Development and Deployment Pipeline | *Jenkins, Terraform, Ansible*   **January 2025**
- Automated instance setup with Ansible playbooks, including Jupyter Notebook and CUDA toolkit within 5 minutes
- Integrated Terraform and Jenkins to enable dashboard access and streamline instance launch.
- Dockerized trained models and deployed them via Flask endpoints, reducing deployment cost by 50%

Mobile Chat Application | *Java, Android Studio*   **August 2024**
- Developed an Android chat application using Java, supporting TCP, UDP, and gRPC messaging
- Implemented complex UI features including menu inflaters, lazy loading, and dynamic view updates
- Deployed an AWS-based server mediator to handle communication upto 10 Android clients.

Technical Skills

Cloud & DevOps: AWS, Terraform, Kubernetes, Docker, Linux, Jenkins, Ansible, Prometheus, Grafana, Azure
Languages and Frameworks: Python, Java, SQL, Spring Boot, ASP.NET, React, JavaScript, C
Machine Learning & Big Data: PyTorch, Neural Networking, Data Analysis, Hadoop, Kafka

Publications

ML-DaaS: A Secure Integrated ML Training and Deployment Framework for Cloud   **November 2025**
IEEE CS Cloud Conference 2025, New York, USA
Throughput Prediction of Densely Deployed WLAN Using Graph Attention Networks   **July 2024**
12th International Conference on Information Technology and Science (ICITS 2024), Phuket, Thailand