

KHUSHI AGRAWAL

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EDUCATION

Master of Science, Computer Science

Arizona State University, Tempe, AZ

Relevant Courses: Software Verification, Validation and Testing, Foundations of Algorithms, Statistical Machine Learning

Bachelor of Technology, Computer Science and Engineering

Vellore Institute of Technology, Vellore, India

Aug 2024 - May 2026

(CGPA - 4.0/4.0)

Jul 2019 – Jul 2023

(CGPA – 3.56/4.0)

TECHNICAL SKILLS

Cloud & Security: AWS, GCP, Azure, IAM, VPC, S3, RDS, EC2, Lambda, Docker, Kubernetes, Terraform, CloudFormation, Presidio, CSPM, CI/CD

Programming: Python, C/C++, Go, Java, JavaScript, SQL, Bash

Frameworks & Tools: ReactJS, Django, GitHub Actions, Jenkins, Kafka, Heroku, MySQL, MongoDB, REST APIs

Concepts: Cloud Security, DevOps, IaC, Network Security, SDLC, Agile, SCRUM, Software Testing

PROFESSIONAL EXPERIENCE

DruvStar, Tempe, USA: Data Analyst Engineer Intern

May 2025 – Present

- Engineered a **cloud-native data classification microservice** replacing Google DLP using Python and Microsoft Presidio, ensuring **PII protection and regulatory compliance** across AWS workloads.
- Designed and containerized **microservices with Docker** and **Kafka-based pipelines** for high-throughput inspection under zero-trust environments.
- Integrated **security scanners and vulnerability tests** into CI/CD workflows, automating enforcement of security policies during deployment.
- Collaborated with product and QA teams to define **RFC-compliant, secure data-handling modules**, ensuring audit readiness and robust access control.

Accenture, Hyderabad, India: Advanced App Engineering Analyst

Oct 2023 – Aug 2024

- Developed **modular ingestion pipelines** processing 5 TB/day of data on AWS EMR with PySpark, applying **encryption and access governance** for sensitive datasets.
- Configured **IAM roles, security groups, and encryption policies** to align with enterprise security frameworks.
- Built reproducible cloud environments via **Infrastructure-as-Code (Terraform)** to improve deployment consistency.
- Achieved **AWS Cloud Practitioner certification**, demonstrating proficiency in cloud security best practices and cost optimization.

Ataloud Technologies, Mumbai, India: Full Stack Developer Intern

Sep 2022 – Mar 2023

- Developed production-ready web applications (120+ screens) in **ReactJS** and integrated **40+ secure REST APIs**, enforcing authentication and data protection mechanisms.
- Enhanced reliability through **state management and input sanitization**, improving application integrity and user trust.

Deepija Telecom Pvt. Ltd., Hyderabad, India: Software Developer Intern

May 2022 – Jun 2022

- Refactored reporting UI for data-heavy analytics systems, improving **data load security** and performance by 25%.
- Strengthened **frontend reliability** by optimizing component rendering and validating client-server communication patterns.

ACADEMIC PROJECTS

Online Judge, Remote

Fall 2025 – Present

- Designed a **secure, fault-tolerant online judge system** using React, Django, Docker, and Kafka, deployed on **AWS** with automated **CI/CD pipelines**.
- Integrated **cloud workload isolation, IAM-based access, and security scanning** in deployment workflows to prevent code injection and sandbox breaches.
- Enabled real-time execution tracking and logging for 100+ concurrent submissions with sub-second response times.

LLMind, Tempe, AZ

Spring 2025

- Developed a **sentiment-driven financial forecasting system** using GPT-4, Claude, and FinBERT across 1M+ financial tweets.
- Built a **secure, cloud-hosted model pipeline** with encrypted storage and token-based API access, achieving 96.5% accuracy on MSFT predictions.