KHUSHI AGRAWAL

(623)212-5340 • kagraw22@asu.edu • linkedin.com/in/khushi-agrawal-83aa0a202/

EDUCATION

Master of Science, Computer Science **Aug 2024 - May 2026**
Arizona State University, Tempe, AZ (**CGPA - 4.0/4.0)**
Relevant Courses: Software Verification, Validation and Testing, Foundations of Algorithms, Statistical Machine Learning
Bachelor of Technology, Computer Science and Engineering **Jul 2019 – Jul 2023**
Vellore Institute of Technology, Vellore, India (**CGPA – 3.56/4.0)**

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, SQL, HTML, CSS, PHP
Tools: MySQL, Github, Git, Postman, Jira, Eclipse, IntelliJ, Jupyter Notebook, Visual Studio, Oracle, Kafka, Heroku
Software Engineering: Software Development LifeCycle Models, Agile, Data Structures and Algorithms, SCRUM, Networking, Operating Systems, Object Oriented Design, CI/CD, DevOps, System Debugging, Real-Time Systems, Embedded Software Development
Cloud Computing and Certifications: AWS, GCP, Azure, AWS Certified Cloud Practitioner
Others: Windows, Linux, Unix, API Integration, SpringBoot, MongoDB, Machine Learning, LLMs, Microservices

PROFESSIONAL EXPERIENCE

DruvStar, Tempe, USA: Data Analyst Engineer Intern **May 2025 – Present**
- Designed and implemented large-scale real-time data classification features using C++, Java, Python, and Kafka, processing **2M+** records daily in a containerized architecture.
- Developed and deployed microservices under real-time constraints using Docker and message queues, improving throughput by **3x** and scaling to **50+** concurrent inference jobs.
- Engineered diagnostic logging, telemetry instrumentation, and module-level test automation, cutting fault detection from **10 minutes to under 4 minutes**.
- Collaborated with product management and QA teams to define, test, and deliver robust, standards-compliant (RFC-driven) software solutions for secure data handling.

Accenture, Hyderabad, India: Advanced App Engineering Analyst **Oct 2023 – Aug 2024**
- Designed modular data ingestion pipelines processing **5TB** daily of Yelp data using Hadoop, PySpark, and MySQL, optimizing queries to serve dashboards in under **2 seconds**.
- Improved high-throughput pipeline architecture, enabling **50+** analytics workflows to run daily with **20%** lower resource usage.
- Achieved a top **3%** ranking in cohort of **80 engineers** by demonstrating leadership in project execution and peer mentoring during the final assessment.

Ataloud Technologies, Mumbai, India: Full Stack Developer Intern **Sep 2022 – Mar 2023**
- Developed **120+** screens in ReactJS, HTML, CSS with Python backend integration for Ataloud's official website, reducing median page load to **1.8 seconds**.
- Integrated **40+ APIs**, streamlining data flow between microservices and supporting 1M+ monthly transactions.
- Built responsive UIs with ReactJS, NextJS, and MaterialUI, improving usability ratings from **3.9 to 4.7** out of **5** for 10,000+ active users.

Deepija Telecom Pvt. Ltd., Hyderabad, India: Software Developer Intern **May 2022 – Jun 2022**
- Redesigned reporting UI using React, HTML, and CSS, reducing data load time by **25%** and supporting **5,000+** daily active report views.
- Played a pivotal role in optimizing UI components, refactoring layouts to increase visible data space by **80%**, enhancing report accessibility and facilitating intuitive navigation.

ACADEMIC PROJECTS

Online Judge, Remote **Spring 2025 – Present**
- Built scalable, fault-tolerant online judge system with React, Django, Docker, and Kafka, achieving **99.9%** uptime for **100+** concurrent users.
- Integrated Kafka asynchronous processing for sub-second real-time result updates, processing **500+** submissions per minute without degradation.

Form Authentication System, Tempe, AZ **Spring 2025**
- Built backend in JSP with RSA encryption for credentials, ensuring **100%** secure storage and eliminating plaintext passwords.
- Integrated MySQL with Tomcat 8.0 to enable secure credential storage and retrieval, reducing unauthorized access attempts by **95%** in penetration tests.