

SHASHANK KUMAR SINGH

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EDUCATION

M.S. in Computer Science
Arizona State University : Tempe, AZ, USA
Relevant coursework: Artificial Intelligence and Machine Learning

Dec 2026 (expected)
GPA: 4.00 / 4.00

B.Tech in Electrical and Electronics
Manipal Institute of Technology : Manipal, India
Relevant coursework: Minor in Computing and Interactive Programming in Python

Nov 2023
CGPA: 8.01 / 10.00

SKILLS SUMMARY

Languages & Tools: Python, C, C#, C++, JavaScript, HTML/CSS, SQL, MATLAB, Git, Redis
Frameworks & Platforms: .NET 6, AngularJS, AWS, Azure, Docker
Data & Analysis: Pandas, NumPy, Power BI, Alteryx, OpenTelemetry, OSRM
Systems: Cryptography (AES, RSA), Network Security, REST API services, PostgreSQL

WORK EXPERIENCE

Park My Ride LLC, Tempe-AZ, USA (Remote): AI Backend Development Intern

May 2026 – Present

- Engineered 20+ AI pipelines and backend features using Python, Rust, SQL, REST APIs, and pytest across pricing, demand forecasting, routing, retrieval, observability, and agent workflow modules.
- Delivered backend features for monitoring, routing, and ML workflows using OpenTelemetry, Redis, PostgreSQL and OSRM to support reliable AI pipeline operations.
- Created and validated RAG and agent workflow features across 15+ branches, using unit tests, schema checks, Makefile workflows, documentation updates, and Git reviews to catch edge cases, dependency gaps, and integration issues before merge.

Bajaj Finserv, Pune, India: Senior Software Developer

Jan 2023 – Dec 2024

- Led the development and deployment of 3+ enterprise-grade web applications using Python, .NET 6, and AngularJS for mandate management and account aggregation, directly supporting 50K+ financial transactions monthly.
- Engineered and maintained 20+ REST APIs with ASP.NET and designed high-volume ETL pipelines in Python, reducing registration processing time by 35% and improving service reliability; automated CRUD operations across 5+ PostgreSQL modules, enhancing data integrity and reducing manual intervention by 40%.
- Partnered with DevOps, QA, and security teams to migrate services from Azure to AWS, implement CI/CD pipelines, and scale production systems to maintain 99.9% uptime while ensuring financial regulatory compliance.

KPMG, Gurgaon, India: Software Development Intern

May 2022 – Jul 2022

- Automated a Selenium pipeline in Python to scrape and parse 10K+ Amazon product reviews across 100+ SKUs for competitive benchmarking. Added pagination, throttling, and error handling to keep collection reliable under changing page layouts.
- Integrated Alteryx ETL workflows processing 200K+ records per week, performing data cleaning, deduplication, and enrichment from multiple data sources. Parameterized workflows into reusable pipelines and reduced manual preparation time for analysts.
- Published 5+ Power BI dashboards with KPIs, filters, and drill downs used in presentations to senior stakeholders. Implemented data models and time series analysis of product performance.

PROJECTS

NewzSenti – News Sentiment Analysis Platform | [Website], :

- Deployed a production sentiment platform on AWS using Python, Lambda, API Gateway, and HTTPS custom domain routing.
- Built a real-time NLP pipeline with VADER and DistilBERT for rule-based and transformer-based news headline sentiment scoring.
- Optimized Lambda cold starts, response caching, and CloudWatch logging to reduce latency under bursty keyword traffic.

BPAC-WebSec – LLM Web Agent Security Benchmark | [GitHub], :

- Built a browser security sandbox to benchmark LLM web agents against phishing, redirects, downloads, and permission abuse.
- Added URL inspection, redirect tracing, download guards, permission checks, and DOM/network/action telemetry per run.
- Implemented metrics and analysis scripts to quantify privacy leakage, unsafe actions, and policy adherence across agents.

CERTIFICATION

AWS Certified Cloud Practitioner
Credential ID: d3fb5713fbfd44108f2a76980dd4d721
Validate: aws.amazon.com/verification

Issued Aug 2025 – Expires Aug 2028

Covers core AWS cloud concepts and best practices for foundational cloud fluency.
Foundational certification covering AWS global infrastructure, core services, security, billing, and architectural best practices.

ACADEMIC & VOLUNTEER ACTIVITIES

ISSC Volunteer, International Students and Scholars Center
Arizona State University
Facilitated logistics and support for student-led diversity and inclusion events directly impacting the engagement of over 200 students.

Feb 2025 – Mar 2025