
layout: default title: Akshansh Kumar - Resume

Akshansh Kumar

Software Engineer

- Email: akshanshkmr821@gmail.com
 - Phone: +918800319173
 - Location: Ghaziabad, India
 - LinkedIn: linkedin.com/in/akshanshkmr
 - GitHub: github.com/akshanshkmr
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Summary

Software Engineer with **5+ years** of expertise building full-stack applications with Python and React. At D. E. Shaw, I develop and maintain mission-critical tools for the firm's **risk team**, focusing on enhancing reliability, operational efficiency and supporting quants. Passionate about solving complex problems in high-stakes environments.

Technical Skills

- **Backend:** Python, FastAPI
 - **Frontend:** ReactJS, JavaScript
 - **Data & Visualization:** Pandas, Plotly, Streamlit
 - **Databases:** MongoDB, FAISS
 - **AI Tools & Technologies:** RAG, Claude SDK
 - **Testing:** Cypress
 - **DevOps & Tools:** Git, Docker, Linux, CI/CD
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Work Experience

Senior Member, Tech

D. E. Shaw India Pvt. Ltd. | Gurugram, India | 08/2020 - Present

- Built a knowledge-sharing chat assistant using RAG + Claude SDK over the Risk Team's internal codebase and documentation, **reducing new member onboarding time by 30%**.

- Developed a data validation framework with automated daily monitoring for firmwide performance attribution numbers, **reducing Quant debugging time by 50%**.
 - Led development of a Session Replay tool for a JavaScript framework that captures and replays user sessions with video-like playback and debug data, **eliminating manual bug reporting and significantly reducing reproduction time**.
 - Built a selective CI/CD pipeline that runs only tests related to modified files, **significantly reducing PR test cycle time and improving development velocity**.
 - Developed a performance tracking application to monitor per-task CPU and memory usage across the server grid, **enabling better resource allocation and cost efficiency**.
 - Automated end-to-end testing with Cypress across all critical user flows, **reducing manual QA effort by 80%** and improving release confidence.
 - Built a Streamlit workflow management application for Operations Engineers consolidating task management and daily metrics into a single platform, **measurably boosting team productivity**.
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Projects and Open Source Contributions

Custom Streamlit Components

Identified gaps in the Streamlit open-source ecosystem for internal tooling needs. Designed, built, and published custom components to fill these gaps and contributed them back to the community.

Education

Masters of Technology (M. Tech)

BITS Pilani | 10/2025 - Present

Masters of Computer Applications (MCA)

Amity University | 09/2021 - 10/2022

- CGPA: 8.55

Bachelor of Computer Applications (BCA)

Amity University | 07/2017 - 06/2020

- CGPA: 9.0
 - Awarded with Bronze Medal for Academic Excellence.
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Achievements

- Won First Prize in DE Shaw Firm-wide Hackathon (2024)

- Completed Google Foobar Challenge (2022)
- Won First Prize in DE Shaw QTE Hackathon (2021)
- Honored in Google Bug Hunter Hall of Fame (11/2019)