

Aakanksha Choudhary

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EDUCATION

Purdue University, West Lafayette - Master of Science in Computer Science

University of Mumbai, Mumbai - Bachelor of Engineering in Computer Engineering

TECHNICAL SKILLS

Programming Languages and Databases: Java, Python, Flask, SQL, MongoDB, NodeJS, GraphQL

Tools and Applications: Git, Docker, Kubernetes, Helm, Terraform, AWS, Jenkins, SonarQube, Postman, Snowflake

PROFESSIONAL EXPERIENCE

Software Engineer

Aug 2021 - Present

Marqeta, Oakland, CA

- Developed transaction and exception management solutions for reconciliation, enabling accurate settlement tallying between network files and the issuer processor.
- Enhanced REST APIs by introducing advanced filtering to streamline exception management.
- Leveraged AWS services to automate reporting for network files, streamlining data processing and enabling faster, data-driven decisions for the settlement team.
- Designed, built, and owned high-impact real-time alerting features, ensuring operational resilience
- Led post-mortems and developed mitigation strategies for high-priority on-call incidents, reducing future impact on downstream customers.
- Strengthened data integrity by implementing strong typing for network file parsing, fortifying downstream processing.
- Led a team in a company-wide hackathon to develop an AI-powered Financial Assistant, leveraging NLP to interpret user queries and provide balance and savings insights.
- Implemented an encryption library to secure PCI-sensitive debit and credit card data streamed via SQS queues, enhancing security and fortifying compliance with industry standards.
- Eliminated a costly internal streaming system, migrating to Snowflake and reducing annual expenses by over 95%
- Mentored, guided, and empowered interns and new teammates, accelerating their onboarding and impact.
- Currently owning and driving a large-scale API migration across clusters and environments, ensuring seamless service transitions without disruptions.

Software Engineer

Mar 2019 - Aug 2021

Aunalytics, South Bend, IN

- Managed the Query Microservice, enabling clients to query data from the data lake and enhanced query handling by enabling result storage as new data lake objects. Developed a feature to allow users to terminate running queries on demand.
- Optimized error propagation from Apache Drill via Java's Backpressure Strategy, improving error visibility across WebApp, SDK, and CLI for Data Scientists.
- Implemented tagging for Data Lake objects, enhancing filtering by environment, purpose, and user groups.
- Built an internal CLI tool for the QA team to analyze code quality, integrating coverage computation into the build pipeline.
- Automated client onboarding by developing a Python-based CLI tool for the Support Team.
- Deployed and debugged production issues to support the Backend team.

Software Engineer Intern

May 2018 - Aug 2018

Here Technologies, Chicago, IL

- Built a real-time dashboard to monitor the state of various catalogs and filters using Scala, D3, and Play Framework.
- Extracted and integrated insights from Splunk logs, enhancing failure condition visibility across system components.
- Developed API endpoints to expose analyzed Splunk log data, enabling faster issue diagnosis.
- Collaborated with project managers to document findings and identify failures based on dashboard insights.

Research Assistant

Feb 2017 - May 2018

DARPA Project at Discovery Park, Purdue University, West Lafayette, IN

- Engineered an app to analyze Mass Spectrometer reaction data, enabling predictive modeling of sample behaviors.
- Optimized scan efficiency by 63% by developing a Python-based glass-slide scan code for Porsolia's PLC controller.
- Designed and implemented an interactive interface to store, retrieve, and visualize analysis results through dynamic graphs and charts.