

Akhil Juluru

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EDUCATION

- **University of Illinois at Chicago** Chicago, IL
Master of Science in Management Information Sciences *Aug 2023 – Present*
- **Birla Institute of Technology and Science** Pilani, India
Bachelor of Engineering in Electronics and Communication *Aug 2017 – July 2021*

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, Typescript, HTML/CSS, Shell
Cloud and Database: AWS, Openshift, Helm, Kubernetes, Spring Cloud, Oracle SQL, PostgreSQL, MongoDB
Web Technologies: React, Node.js, Flask, JUnit, Material-UI, Express js, Next js
Developer Tools: Git, VSCode, IntelliJ, Docker, Maven, Jira, Junit, Selenium, Jenkins, Splunk
API Frameworks: Spring, Spring MVC, Spring Boot, Spring Data JPA, Flask, Hiberante, Spring Cloud Services - Eureka, Gateway, Hysterix, Cloud Config

EXPERIENCE

- **UIC College of Engineering** Chicago, USA
Full Stack Developer (Graduate Assistant) *Oct 2023 - Present*
 - Spearheaded the strategic transition of a legacy PHP application to a modernized React frontend and Node.js backend, driving enhanced user experiences and improved performance.
 - Led the deployment and management of the revamped application in virtual machine environments, ensuring optimal performance, scalability, and security while minimizing disruptions to ongoing operations.
- **Deutsche Bank** Pune, India
Associate Engineer *Jul 2021 - Jul 2023*
 - Designed a deployment configuration and alerting system for a legacy application transfer to the company's private cloud running on Openshift, which minimized infrastructure difficulties, decreased outages, and boosted automation, saving \$112,000 per year in server costs.
 - Developed multiple services to synchronize data from various parts of the organization utilizing Spring Boot microservices and helm charts, which resulted in a 75% reduction in turnaround time and an increase in the accuracy of the organization's accounting process.
 - Created a utility tool to analyze configuration files of various environments for the development and testing of a critical legacy application using Jenkins pipeline and Python, which improved the usability of the environment and reduced testing queues from three days to twelve hours.
 - Worked on automating testing of various team reports and integrating it with the Jenkins pipeline (CI/CD) of services to reduce deployment time by 80%.
 - Updated legacy reporting mechanisms to microservice architecture written in Spring Boot RESTful services with React as the frontend, enabling the addition of new functionality.

AWARDS

- **AWS:** Secured the first place in the AWS JAM, which was organized by AWS in partnership with McDonald's

PROJECTS

- **Legal AI Agent** | *LLM, OpenAI, Python, SQLite, Docker*
 - Built a legal document automation app using Streamlit and OpenAI's GPT-3 (text-davinci-002), streamlining contract creation and reducing drafting time.
 - Utilized OpenAI API for feature engineering to identify key variables such as risk tolerance and liquidity, optimizing portfolio design for more accurate recommendations.
- **Security Research** | *Oracle ERP*
 - Successfully identified and exploited a serious security vulnerability within PeopleSoft ERP, showcasing expertise in privilege escalation and buffer overflow techniques, as well as in-depth knowledge of Oracle and PeopleSoft.
 - Applied advanced pen testing methodologies to assess the security of PeopleSoft ERP, resulting in the resolution of a high-severity security vulnerability, and highlighting expertise in Oracle, PeopleSoft, and pen testing techniques.