

# Akhil Juluru

LinkedIn: [linkedin.com/in/akhil-juluru](https://www.linkedin.com/in/akhil-juluru)  
Chicago, Illinois

Email : [akhil.juluru@gmail.com](mailto:akhil.juluru@gmail.com)  
GitHub: [github.com/JuluruAkhil](https://github.com/JuluruAkhil)  
Mobile : (224) 509-4001

## EDUCATION

---

- **University of Illinois at Chicago** Chicago, IL  
*Master of Science in Management Information Sciences*
- **Birla Institute of Technology and Science** Pilani, India  
*Bachelor of Engineering in Electronics and Communication*

## TECHNICAL SKILLS

---

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, Typescript, HTML/CSS, Shell  
**Cloud and Database:** GCP, AWS, Openshift, Helm, Kubernetes, Kafka, Spring Cloud, Oracle SQL, PostgreSQL, MongoDB  
**Web Technologies:** React, React Native, 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, IL  
*Software Engineer(GA)* Oct 2023 – Present
  - Spearheaded the end-to-end development of a comprehensive PhD evaluation and assessment system using Node.js and Next.js, introducing a cycle-based tracking architecture that enabled efficient management of over 2,000 data points annually across 500+ PhD candidates and 10 academic departments.
  - Transformed manual, paper-based assessment workflows into a fully digital process, reducing administrative overhead by 60% and cutting average evaluation processing time from 2 weeks to 3 days, while ensuring seamless year-over-year progress monitoring and compliance.
  - Led the strategic migration of a legacy PHP application to a modern React frontend and Node.js backend, resulting in a 40% improvement in application load times and a 30% reduction in user-reported issues.
  - Deployed and managed the revamped application across multiple virtual machine environments, achieving 99.9% uptime, enhanced scalability to support 1,000+ concurrent users, and strengthened security protocols with zero major incidents post-launch.
- **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.
- **Knolskape** Bangalore, India  
*Software Engineer Intern* Feb 2021 - Jun 2021
  - Built interactive simulations and learning modules for enterprise clients, enhancing employee engagement in digital learning environments.
  - Improved module load time by 30% through front-end optimization and efficient API integration.

- Contributed to 5+ client projects, helping deliver tailored learning solutions that reached over 10,000 users globally.
- Collaborated with product managers and designers to iterate on UX improvements, boosting completion rates by 20%.

- **Arrow Constructions Ltd**

India

*Software Engineer Intern*

*Jan 2019 - Feb 2021*

- Designed and developed a web-based internal inventory tracking system used across 3+ project sites, significantly streamlining equipment management processes.
- Reduced average machine retrieval time from 1–2 hours to under 5 minutes by implementing advanced search filters and real-time status tracking.
- Minimized paperwork by digitizing over 1,000 inventory records, improving data accessibility and reducing manual errors by 90%.
- Collaborated with cross-functional teams including procurement and on-site staff to ensure smooth deployment and achieved 100% adoption within the first month.

## CERTIFICATIONS

---

- **Professional Cloud Architect** - *Issued by Google Cloud*

## AWARDS

---

- **AWS:** Secured **1st place** in the National Finals representing UIC, scoring 1175/1200 with only 3 of 15 available clues; placed 2nd in the US West Preliminary Round.
- **AWS:** Secured the first place in the AWS JAM, which was organized by AWS in partnership with McDonald's.

## PROJECTS

---

- **Location-Based Alerting Platform** | *React Native (Expo), Next.js, RBAC, GitHub Actions*
  - Designed and developed a mobile application enabling businesses to send targeted notifications to employees or communities based on geolocation filters.
  - Built a role-based access control (RBAC) admin dashboard for managing alerts, user permissions, and real-time delivery insights.
  - Collaborated with product managers to define system architecture and alert flows, translating business requirements into scalable frontend and backend implementations.
  - Implemented CI/CD workflows using GitHub Actions for automated deployment of mobile and web applications, reducing manual deployment effort by 90%.
- **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.