

# Akanksha Ashok Bankhele

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## EDUCATION

### Indiana University Bloomington

*Master of Science in Computer Science, GPA: 3.77/4*

Bloomington, Indiana

*Aug. 2023 – May 2025*

### Pimpri Chinchwad College of Engineering

*Bachelor of Engineering in Electronics and Telecommunication Engineering, GPA: 9.01/10*

Pune, Maharashtra

*Aug. 2017 – May 2021*

## EXPERIENCE

### Software Engineer

*Indiana University Bloomington*

Sep. 2024 – Present

*Bloomington, Indiana*

- Designed and executed 200+ automated test cases with Cypress and JavaScript for a Ruby on Rails application, improving test coverage, system reliability and improving user experience for digital library services.
- Integrated Docker with Cypress for scalable test execution and utilized TestRail for efficient test management.
- Collaborated with development and QA teams in an Agile environment via Zenhub, improving feature delivery efficiency by 25% and documenting 50+ best practices on Confluence.

### Software Engineer

*Globant*

Dec. 2021 – Jun. 2023

*Pune, Maharashtra*

- Developed Spring Boot microservices and RESTful APIs to integrate with mainframe PostgreSQL, streamlining credit limit updates, account closures, and transactions, boosting efficiency by 40%.
- Led the migration of legacy RPA processes to Java by analyzing workflows and optimizing system architecture, improving stability by 93% and maintainability.
- Automated data processing by cleaning and extracting key data from Excel Sheets, storing it in AWS S3 buckets.
- Leveraged BPMN for workflow modeling, resulting in automated processes that streamlined operations.
- Developed invoice generation with Raven integration for email notifications, streamlining billing processes.
- Created and executed over 80+ unit and integration test cases, leveraging Postman for thorough testing.
- Implemented CI/CD pipelines with Jenkins and GitHub Actions, reducing deployment time by 40% and ensuring code reliability with JUnit-based unit, integration, and system testing.

### Software Engineer Intern

*HPC Sphere*

May 2021 – Oct. 2021

*Delhi, Delhi*

- Led the development of an inventory management system using React and Node.js, optimizing performance with Redux state management and Nginx API load balancing, leading to faster interactions and reduced server load.
- Implemented OAuth 2.0 and JWT authentication, reducing unauthorized access for over 10,000 active users.

## ACADEMIC PROJECTS

### Semantic Search Discord bot | *Python, FastAPI, AWS Lambda, AWS Elasticsearch*

- Constructed a Discord bot with semantic search leveraging FastAPI and Opensearch, utilizing vector embeddings for accurate contextual retrieval.
- Deployed a serverless architecture with AWS Lambda, reducing operational costs and improving scalability.

### Connect 360 | *Springboot, Java, Maven, ReactJs, Firebase, Docker, Git*

- Built a secure Patient and Insurance Management System with, role-based access, and real-time chat.
- Integrated Twilio SMS and Spring Boot Mail APIs for real-time reminders, boosting patient engagement by 40%, and optimized Firestore database structure to cut query latency by 30%.

### GCP PhotoVault | *Spring Boot, Google Cloud Storage, MySQL, Hibernate, Thymeleaf*

- Engineered a full-stack photo management application with Spring Boot, Spring Security, and Google Cloud Storage (GCS), securely storing and retrieving a test dataset of over 200 images with average response times under 300ms.
- Implemented RESTful APIs with Spring Data JPA and Hibernate for user and image management, optimizing MySQL interactions and integrating Thymeleaf for rendering of user dashboards and image galleries.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, C/C++, HTML, CSS, SQL, Shell Scripting

**Frameworks:** Spring Boot, React, Cypress, Angular, Node.js, Flask, JUnit, FastAPI

**Developer Tools:** Git, Docker, AWS, Google Cloud Platform, Kubernetes, Jenkins, CircleCi, Jira

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase, OpenSearch