

# Shubham Bhagat

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## EDUCATION

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|---|---------------------|
| <b>Master of Science in Computer Science, Indiana University Bloomington</b>                      | Aug 2021 – May 2023 |
| Courses: Database Technologies, Software Engineering, Applied Algorithms, Artificial Intelligence | 3.55 GPA            |
| <b>Bachelor of Engineering in Computer Engineering, University of Mumbai</b>                      | Aug 2017 – Oct 2020 |
| Courses: Operating Systems, Computer Networks, Database Systems, OOP, Distributed Systems         | 3.66 GPA            |

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, PHP, SQL, HTML5, CSS3  
**Databases:** MySQL, PostgreSQL, MongoDB, AWS DynamoDB, Redis  
**Frameworks:** React.js, Next.js, Spring Boot, React Native, JUnit, Hibernate, Flask  
**Technologies:** Git, GitHub, AWS(S3, Lambda), Postman, Docker, jQuery, JWT  
**Certifications:** pracle Certified Associate Java Programmer, MuleSoft Level-1 Developer

## PROFESSIONAL EXPERIENCE

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|---|----------------------|
| <b>Systems Analyst - Graduate Assistant, Indiana University</b>   | May 2022 – present   |
| <ul style="list-style-type: none"><li>Migrating the existing graduate application system to Fireform and Salesforce CRM thereby streamlining the application process for <b>90,000+</b> students and employees across two Indiana University campuses.</li><li>Developing REST APIs in Java Spring Boot to handle AJAX calls from Fireform and store/retrieve data from database.</li><li>Automated audit report generation by writing Python script using Pandas to perform data filtering, transformation, and aggregation over datasets containing <b>200k+</b> rows resulting in <b>80%</b> reduction in person-hours.</li><li>Building a dashboard using React.js and Chart.js to visualize the audit reports and facilitate statistical analysis.</li><li>Handled a critical production failure in <b>4 hours</b> by performing a backup and updating Machforms to support PHP version 8.0; thus ensuring system availability and serving a vital business KPI.</li></ul> |                      |
| <b>Associate Instructor, Indiana University</b>   | Jan 2022 – May 2022  |
| <ul style="list-style-type: none"><li>Mentored <b>30+</b> students to develop a real-world full-stack application following Scrum methodology.</li><li>Conducted sessions on plan-driven and Agile approaches, MVC, microservices, and concurrency in Agile process.</li></ul>  |                      |
| <b>Application Development Associate, Accenture</b>   | Jan 2021 – June 2021 |
| <ul style="list-style-type: none"><li>Automated data integration between Newgen and Salesforce system by developing REST APIs using <b>MuleSoft</b> for redirecting trade exceptions to appropriate handlers; reduced person-hours by <b>72%</b>.</li><li>Developed 8+ System APIs to extract data from databases and SOAP web services; published them as shared modules on Anypoint Exchange to expedite development.</li><li>Improved code quality and stability by writing <b>MUnit</b> tests to ensure <b>80%</b> code coverage on SonarQube.</li></ul>  |                      |

## ACADEMIC PROJECTS

|   |                       |
|---|-----------------------|
| <b>Glimpse</b>   <i>React Native, Alan AI, JavaScript, NewsCatcher-API</i>  | Sept 2022 – Nov 2022  |
| <ul style="list-style-type: none"><li>Developed a <b>voice-assisted</b> news application using React Native to deliver narrated news articles.</li><li>Integrated an AI-powered voice assistant to fetch, read and open articles based on the user's voice command.</li><li>Leveraged <b>Alan AI</b> platform to design the voice dialog by writing custom scripts for speech intent and inference.</li><li>Utilized NewsCatcher-API to retrieve news articles based on filters such as keywords, category, and article source.</li></ul>   |                       |
| <b>Readify</b>   <i>React.js, Material UI, Python, Flask, MySQL, Machine Learning</i>   | Jan 2022 – April 2022 |
| <ul style="list-style-type: none"><li>Led a team of 4 to build a platform for users to explore books, create book lists, and get book recommendations.</li><li>Engineered the frontend using React.js, and backend REST APIs using Python's Flask Framework; leveraged Figma for UI prototyping, and Material UI for creating a responsive layout.</li><li>Processed raw book data for <b>300k+</b> book records using Pandas to build a content-based book recommendation system using features such as title, genre, author, and rating.</li><li>Assisted team members to optimize recommendation algorithm resulting in <b>86%</b> reduction in response time.</li></ul> |                       |
| <b>RentALL</b>   <i>Java, HTML5, CSS3, JavaScript, jQuery, Bootstrap, MySQL, AWS S3</i>   | Sept 2021 – Dec 2021  |
| <ul style="list-style-type: none"><li>Spearheaded a team of 3 to engineer a full-stack web application to offer rental and advertisement services.</li><li>Integrated various features such as <b>OAuth</b>, product filtering, voice-activated search, Google Maps API, and chatbot.</li><li>Strategized sprint planning, backlog refinement, user stories management, and team meetings as a Scrum Master.</li><li>Facilitated team members to deploy the web app on Heroku and configured <b>AWS S3</b> bucket to store product images.</li></ul>  |                       |