

# Shubham Bhagat

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## EDUCATION

<b>Master of Science in Computer Science, Indiana University Bloomington</b>	Aug 2021 – May 2023
Courses: Database Technologies, Software Engineering, Applied Algorithms, Artificial Intelligence	3.66 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	3.55 GPA

## TECHNICAL SKILLS

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

## PROFESSIONAL EXPERIENCE

<b>Systems Analyst - Graduate Assistant, Indiana University</b>	May 2022 – present
<ul style="list-style-type: none"><li>Migrating the current Graduate eDoc System to Fireform and integrating Fireform with Salesforce CRM.</li><li>Building REST APIs in Java Spring Boot to handle AJAX calls from Fireform and store/retrieve data from databases.</li><li>Automated audit report generation by writing Python script using Pandas reducing person-hours by <b>80%</b>.</li><li>Constructing a dashboard using React.js and Chart.js to visualize the audit reports and facilitate statistical analysis.</li><li>Resolved a critical production failure in <b>4 hours</b> by performing a backup and updating Machforms to support PHP 8.</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><li>Evaluated MVP of <b>8</b> teams for each sprint and provided constructive feedback for improvements.</li></ul>	
<b>Application Development Associate, Accenture</b>	Jan 2021 – Jun 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 those APIs 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, Zustand, NewsCatcher-API</i>	Sep 2022 – Nov 2022
<ul style="list-style-type: none"><li>Developed a cross-platform <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 keywords, category, and article source.</li></ul>	
<b>Readify</b>   <i>React.js, Material UI, Python, Flask, MySQL</i>	Jan 2022 – Apr 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 front end using <b>React.js</b>, Material UI, and back end REST APIs using Python's Flask Framework.</li><li>Built a content-based recommendation system for 30k+ books 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>	Sep 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>	
<b>Happy Gramps</b>   <i>Flutter, Dart, SQLite, Figma</i>	Jul 2019 – Mar 2020
<ul style="list-style-type: none"><li>Managed a team of 2 to build a senior citizen safety app using <b>Flutter</b> that includes a fall detection system, location tracking services, and miscellaneous functionalities.</li><li>Leveraged Flutter's geocoder library to notify emergency contacts about the user's <b>real-time location</b>.</li><li>Incorporated priority-based note keeper, to-do task, and medicine reminder to aid the elderly suffering from dementia.</li></ul>	