# Shubham Bhagat

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## EDUCATION

**Indiana University**, Bloomington, Indiana                                       Aug 2021 – May 2023
*Master of Science in Computer Science*                                                *3.55 GPA*

**University of Mumbai**, Mumbai, India                                              Aug 2017 – Oct 2020
*Bachelor of Engineering in Computer Engineering*                                      *3.66 GPA*

## TECHNICAL SKILLS

**Languages**: Java, Python, JavaScript, PHP, SQL, HTML5, CSS3
**Databases**: MySQL, PostgreSQL, MongoDB, AWS DynamoDB, Redis, SQLite
**Frameworks**: ReactJS, NextJS, Spring Boot,React Native, JUnit, Hibernate, Flask
**Tools/Technologies**: Git, GitHub, AWS(S3, Lambda), Postman, Docker, jQuery, JWT
**Certifications**: Oracle Certified Associate Java Programmer, MuleSoft Level-1 Developer
**Topics**: Data Structures, Algorithms, Distributed Systems, Web Development, Artificial Intelligence, Agile, Microservices

## EXPERIENCE

**Systems Analyst - Graduate Assistant**, *Indiana University*                      April 2022 – present
- Migrating the existing graduate application system to Fireform and integrating Fireform with **Salesforce CRM**.
- Created 10+ **REST APIs** in PHP to handle AJAX calls from Fireform and optimized complex SQL queries to store and retrieve data thereby reducing API response time by **23%**.
- Handled a critical production failure by performing a backup and updating Machforms to support PHP version 8.0; the system was restored in 4 hours, fulfilling a crucial business KPI.
- Designing **7+** dynamic workflows to facilitate Fireform routing through multiple levels of departmental approvals.

**Associate Instructor**, *Indiana University*                                      Jan 2022 – April 2022
- Mentored **30+** students to develop a real-world full-stack application following **Scrum** methodology.
- Conducted sessions on plan-driven and **Agile** approach, **MVC** design pattern, and concurrency in Agile process.
- Evaluated MVP of 8 teams for each sprint and provided constructive feedback for improvements.

**Application Development Associate**, *Accenture*                                  Jan 2021 – June 2021
- Automated data integration between Newgen and Salesforce system by developing REST APIs using **MuleSoft** for redirecting trade exceptions to appropriate handlers; reduced person-hours by **72%.**
- Developed 8+ system APIs to extract data from databases and **SOAP** web services; published them as shared modules on Anypoint CloudHub to speed up development.
- Orchestrated data processing and filtering by writing Process APIs to transform XML data into **JSON** objects.
- Improved code quality and stability by writing **MUnit** tests to ensure **80%** code coverage on SonarQube.

## PROJECTS

**Glimpse** | *React Native, Artificial Intelligence, Javascript, Expo, News-API*   Sept 2022 – present
- Developing an AI-powered **voice-enabled** news application for fetching news articles, reading headlines, and opening an article based on user's voice input.
- Leveraging **Alan AI** Platform to design the voice assistant by writing custom scripts for speech intent and inference.
- Utilizing News-API to retrieve news articles based on filters such as keywords, category, and article source.

**Readify** | *ReactJS, Material UI, Python, Flask, MySQL, Machine Learning*        Jan 2022 – April 2022
- Led a team of 4 to build a platform for users to explore books, create book lists, and get book recommendations.
- Processed raw book data for **300k+** book records and built a content-based book recommendation system using features such as title, genre, author, and rating.
- Assisted team members to optimize recommendation algorithm resulting in **86%** reduction in response time.

**RentALL** | *Java, HTML5, CSS3, JavaScript, jQuery, Bootstrap, MySQL, AWS S3*     Sept 2021 – Dec 2021
- Spearheaded a team of 3 to engineer a rental and advertisement platform involving **OAuth**, voice-activated search, **Google Maps API**, chat-bot, and recommendation system.
- Strategized sprint planning, backlog refinement, user stories management, and team meetings as a **Scrum Master.**
- Facilitated team members to deploy the web app on Heroku and configured **AWS S3** bucket to store product images.

**Happy Gramps** | *Flutter, Dart, SQLite, Figma*                                   Jul 2019 – Mar 2020
- Managed a team of 2 to construct an android application that addresses the safety needs of senior citizens.
- Redesigned algorithm to use mobile's gyroscope and accelerometer to compute threshold values for **fall detection**.
- Leveraged flutter's geocoder library to notify emergency contacts about the user's **real-time location**.