

# Shubham Bhagat

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## PROFESSIONAL EXPERIENCE

### Application Developer, Indiana University

May 2022 – Present

- Streamlining the Graduate Application System for **90k+** students and employees by revamping legacy eDocs to Fireform and Salesforce CRM, resulting in a modern and scalable solution.
- Building and maintaining REST APIs in **Java** Spring Boot to manage data storage and retrieval from relational databases.
- Automated audit report generation by writing Python script using Pandas thereby reducing man-hours by **80%**.
- Developed a dashboard using **React.js** and Chart.js to visualize audit reports and facilitate statistical analysis.

### Associate Instructor, Indiana University

Jan 2022 – May 2022

- Mentored **30+** software engineering students in developing full-stack applications using Scrum methodology.
- Facilitated 10+ interactive sessions on MVC, microservices, SDLC models, and concurrency in Agile process, resulting in a **17%** improvement in student grades.

### Application Development Associate, Accenture

Jan 2021 – Jun 2021

- Automated routing of financial trade exceptions between Newgen and Salesforce system by developing **MuleSoft** REST APIs, decreasing resolution time by **72%**.
- Constructed 8+ System APIs for data extraction from databases and SOAP web services; published these APIs as shared modules on Anypoint Exchange, expediting development cycle by **23%**.
- Improved code quality and stability by writing **MUnit** tests to ensure minimum **80%** code coverage on SonarQube.

### Web Development Intern, Sahu Technologies

Jun 2019 – Jul 2019

- Developed user interfaces using React.js and Tailwind CSS, integrating categorical product display, navigation and search bar, and a user cart for an e-commerce website.
- Implemented **JWT token-based authentication** to ensure secure user access and interactions with the web application.

## PROJECTS

### [VoltWise](#) | Next.js, AWS(Lambda, S3, API Gateway, EventBridge, ECS, ECR), React Query

- Engineered an end-to-end visualization platform using AWS and **Next.js** to forecast energy trends across **11** U.S. regions.
- Employed AWS Lambda and EventBridge for daily ingestion and transformation of **1M+** data points, stored in S3 bucket.
- Leveraged **React Query** for efficient API response caching and ApexCharts.js for interactive data visualization.
- Orchestrated model retraining and forecasting with ECS, ECR, Step Functions and utilized **CircleCI** for CI/CD integration.

### [Readify](#) | React.js, Material UI, Python, Flask, MySQL

- Led a team of 4 to develop a book exploration platform with a content-based recommendation system for **45k+** books.
- Implemented the front end using **React.js**, Material UI, and back end REST APIs using Python's **Flask** Framework.
- Collaborated with team members to optimize recommendation algorithm resulting in an **86%** reduction in response time.

### [RentALL](#) | Java, HTML5, CSS3, JavaScript, jQuery, Bootstrap, MySQL, AWS S3

- Spearheaded a team of 3 to engineer a full-stack web application to offer rental and advertisement services.
- Incorporated features including **OAuth**, product filtering, voice-activated search, Google Maps API, and chatbot.
- Strategized sprint planning, backlog refinement, and user story management across a 5-sprint cycle as the Scrum Master.
- Deployed the web application on **Heroku** and configured **AWS S3** bucket for efficient storage of product images.

### [Glimpse](#) | React Native, Alan AI, JavaScript, Zustand, NewsCatcher-API

- Built a cross-platform voice-assisted news application using **React Native** and Alan AI to deliver narrated news articles.
- Integrated NewsCatcher-API to retrieve and filter news articles based on keywords, 12+ categories, and 900+ article sources.

## EDUCATION

### Master of Science in Computer Science, Indiana University Bloomington

Aug 2021 – May 2023

Courses: Database Technologies, Software Engineering, Applied Algorithms, Cloud Computing

3.7 GPA

### Bachelor of Engineering in Computer Engineering, University of Mumbai

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:** Next.js, React.js, Spring Boot, React Native, JUnit, Hibernate, Flask, Bootstrap, Material UI

**Technologies:** Git, AWS(Lambda, S3, EventBridge, API Gateway, ECS, ECR), Docker, jQuery, JWT, Zustand, React Query, CircleCI

**Certifications:** Oracle Certified Associate Java Programmer, MuleSoft Level-1 Developer