

# Shubham Bhagat

812-671-7382 | shubhambhagat98@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | Bloomington, IN

## EDUCATION

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

## PROFESSIONAL EXPERIENCE

<b>Systems Analyst - Graduate Assistant</b> , <i>Indiana University</i>	May 2022 – May 2023
<ul style="list-style-type: none"><li>Streamlining the Graduate Application System for <b>90000+</b> students and employees by migrating legacy eDocs to Fireform and Salesforce CRM, resulting in a modern and scalable solution.</li><li>Building and maintaining REST APIs in <b>Java</b> Spring Boot to manage data storage and retrieval from databases.</li><li>Automated audit report generation by writing Python script using Pandas thereby reducing man-hours by <b>80%</b>.</li><li>Developed a dashboard using <b>React.js</b> and Chart.js to visualize audit reports and facilitate statistical analysis.</li><li>Delivered tutorials and hosted 5+ knowledge-sharing sessions for new hires on FireForms, Salesforce, and API development.</li></ul>	
<b>Associate Instructor</b> , <i>Indiana University</i>	Jan 2022 – May 2022
<ul style="list-style-type: none"><li>Mentored <b>30+</b> software engineering students in developing full-stack applications using Scrum methodology.</li><li>Facilitated 10+ interactive sessions on MVC, microservices, SDLC models, and concurrency in Agile process, resulting in a <b>28%</b> improvement in student grades.</li><li>Assessed MVPs of <b>8</b> teams over a 5 sprint cycle and provided <b>35+</b> actionable feedback items to improve code efficiency.</li></ul>	
<b>Application Development Associate</b> , <i>Accenture</i>	Jan 2021 – Jun 2021
<ul style="list-style-type: none"><li>Automated routing of financial trade exceptions between Newgen and Salesforce system by developing <b>MuleSoft</b> REST APIs, decreasing resolution time by <b>72%</b>.</li><li>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 <b>23%</b>.</li><li>Improved code quality and stability by writing <b>MUnit</b> tests to ensure minimum <b>80%</b> code coverage on SonarQube.</li></ul>	

## PROJECTS

**VoltWise** | *Next.js, AWS(Lambda, S3, EventBridge, API Gateway, SageMaker), React Query*

- Designed and implemented an end-to-end energy demand forecasting solution using AWS services and **Next.js**.
- Preprocessed **1M** data points with AWS Lambda and trained a time series ML model using Amazon SageMaker.
- Automated data preprocessing, model training, and prediction generation tasks with Amazon **EventBridge**.
- Leveraged ApexCharts to visualize energy usage insights and forecasts for **10** different US regions.

**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.
- Engineered 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.
- Integrated various features including **OAuth**, product filtering, voice-activated search, Google Maps API, and chatbot.
- Strategized sprint planning, backlog refinement, user stories management, and team meetings as a Scrum Master.
- Deployed the web app on **Heroku** and configured **AWS S3** bucket to store product images.

**Glimpse** | *React Native, Alan AI, JavaScript, Zustand, NewsCatcher-API*

- Developed a cross-platform voice-assisted news application using **React Native** to deliver narrated news articles.
- Designed the voice assistant using **Alan AI** to fetch, read, and open articles along with navigating between screens.
- Utilized NewsCatcher-API to retrieve and filter news articles based on keywords, 12+ categories, and 900+ article sources.

## 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, Glue, API Gateway), Docker, jQuery, JWT, Zustand

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