

Shubham Bhagat

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

EDUCATION

Master of Science in Computer Science, Indiana University Bloomington Aug 2021 – May 2023
Courses: Database Technologies, Software Engineering, Applied Algorithms, Cloud Computing 3.66 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

PROFESSIONAL EXPERIENCE

Systems Analyst - Graduate Assistant, Indiana University May 2022 – present

- Streamlining the Graduate Application System for **90000+** students and employees by migrating 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 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.
- Delivered tutorials and hosted 5+ knowledge-sharing sessions for new hires on FireForms, Salesforce, and API development.

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 **28%** improvement in student grades.
- Assessed MVPs of **8** teams over a 5 sprint cycle and provided **35+** actionable feedback items to improve code efficiency.

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.

PROJECTS

VoltWise | Next.js, AWS(Lambda, S3, EventBridge, Glue, API Gateway, SageMaker)

- Designed and implemented an end-to-end energy demand forecasting solution using AWS services and **Next.js**.
- Preprocessed **1M** data points with AWS Glue 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