

Shubham Bhagat

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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

PROFESSIONAL EXPERIENCE

- Systems Analyst - Graduate Assistant, Indiana University** May 2022 – May 2023
- Streamlined the Graduate Application System for **90000+** students and employees by revamping legacy eDocs to Fireform and Salesforce CRM, resulting in a modern and scalable solution.
 - Built and maintained 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.
- 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, EventBridge, API Gateway, SageMaker), React Query
- Architected and developed an end-to-end energy demand forecasting and visualization platform using AWS 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**.
- 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, API Gateway), Docker, jQuery, JWT, Zustand, React Query
Certifications: Oracle Certified Associate Java Programmer, MuleSoft Level-1 Developer