

Shubham Bhagat

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EDUCATION

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

PROFESSIONAL EXPERIENCE

Systems Analyst - Graduate Assistant , <i>Indiana University</i>	May 2022 – May 2023
<ul style="list-style-type: none">Streamlined 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.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.Delivered tutorials and hosted 5+ knowledge-sharing sessions for new hires on FireForms, Salesforce, and API development.	
Associate Instructor , <i>Indiana University</i>	Jan 2022 – May 2022
<ul style="list-style-type: none">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 , <i>Accenture</i>	Jan 2021 – Jun 2021
<ul style="list-style-type: none">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, 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