Shubham Bhagat

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, PHP, SQL, HTML, CSS, XML
Databases: MySQL, PostgreSQL, MongoDB, Redis, AWS DynamoDB
Frameworks: Next.js, React.js, Spring Boot, React Native, Node.js, JUnit, Hibernate, Flask, Bootstrap, Material UI
Technologies: Git, GitHub AWS(Lambda, S3, EventBridge, API Gateway), Figma, Docker, jQuery, JSON, JWT, React Query, CircleCI
Certifications: Oracle Certified Associate Java Programmer

PROFESSIONAL EXPERIENCE

Application Developer, *Indiana University*   May 2022 – Present

- Modernized the Graduate Application System for 90k+ users by revamping legacy system to Fireform and Salesforce CRM, reducing processing errors and accelerating application review time by **25%**.
- Built REST APIs using Java Spring Boot, optimizing query execution plans to reduce data retrieval time by **40%**.
- Automated audit report generation by creating a Python script for seamless data ingestion and analysis from Oracle databases, leading to an **81%** reduction in report generation time.
- Facilitated Business KPI assessment and data-driven decisions across 6 campuses by developing a visualization dashboard using React.js and Chart.js, effectively presenting and analyzing audit reports.
- Collaborated closely with the design team to enhance the interfaces of the University Website, resulting in a **37%** increase in user engagement and **14%** reduction in bounce rates.

Associate Instructor, *Indiana University*   Jan 2022 – May 2022

- Mentored **30+** software engineering students in developing full-stack applications using Scrum, while leading interactive sessions on SDLC, MVC, microservices, and Agile methodologies, 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 exception 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, API Gateway, EventBridge, ECS, ECR), React Query, Machine Learning*

- 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 AWS S3 bucket.
- Leveraged React Query for API response caching, ApexCharts.js for data visualization and 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.
- Orchestrated front-end development using React.js and Material UI, and back-end REST APIs using Python's **Flask** Framework, while achieving an **86%** reduction in recommendation response time through algorithm optimization.

RentALL | *Java, HTML5, CSS3, JavaScript, jQuery, Bootstrap, MySQL, AWS S3*

- Spearheaded a team of 3 in developing a full-stack web application for rental and advertisement services, integrating **OAuth**, product filtering, voice-activated search, Google Maps API, and chatbot functionalities.
- Strategized sprint planning, backlog refinement, and user story management across a 5-sprint cycle as the Scrum Master.

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

- 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, Information Technology, Data Structures, Object-Oriented Programming   *3.55 GPA*