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, Artificial Intelligence　　*3.55 GPA*

Bachelor of Engineering in Computer Engineering, *University of Mumbai*　　　　Aug 2017 – Oct 2020
Courses: Operating Systems, Computer Networks, Database Systems, OOP, Distributed Systems　　*3.66 GPA*

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, PHP, SQL, HTML5, CSS3
Databases: MySQL, PostgreSQL, MongoDB, AWS DynamoDB, Redis
Frameworks: ReactJS, NextJS, Spring Boot, React Native, JUnit, Hibernate, Flask
Technologies: Git, GitHub, AWS(S3, Lambda, RDS), Postman, Docker, jQuery, JWT
Certifications: Oracle Certified Associate Java Programmer, MuleSoft Level-1 Developer

PROFESSIONAL EXPERIENCE

Systems Analyst - Graduate Assistant, *Indiana University*　　　　May 2022 – present
- Migrating the existing graduate application system to Fireform and streamlining the application process for more than **90,000** students and employees across two Indiana University campuses.
- Creating and maintaining **5+** data campaigns from internal university sources in **Salesforce CRM**, and integrating the data campaign with Fireform for data storage.
- Developed and refactored 10+ REST APIs in PHP to handle AJAX calls from Fireform; optimized complex SQL queries to store and retrieve data thereby reducing API **response time by 23%**.
- Handled a critical production failure in **4 hours** by performing a backup and updating Machforms to support PHP version 8.0; thus ensuring system availability and serving a vital business KPI.

Associate Instructor, *Indiana University*　　　　Jan 2022 – May 2022
- Mentored **30+** students to develop a real-world full-stack application following **Scrum** methodology.
- Conducted sessions on plan-driven and Agile approaches, MVC, microservices, and concurrency in Agile process.

Application Development Associate, *Accenture*　　　　Jan 2021 – June 2021
- Automated data integration between Newgen and Salesforce system by developing REST APIs using **MuleSoft** for redirecting trade exceptions to appropriate handlers; **reduced** person-hours by **72%.**
- Developed 8+ System APIs to extract data from databases and **SOAP** web services; published them as shared modules on Anypoint Exchange to expedite development.
- Improved code quality and stability by writing **MUnit** tests to ensure **80%** code coverage on SonarQube.

ACADEMIC PROJECTS

Glimpse | *React Native, Artificial Intelligence, Javascript, Expo, News-API*　　　　Sept 2022 – present
- Developing a cross-platform news-reading application to deliver narrated news articles using **React Native**.
- Integrating an AI-Powered **voice assistant** to fetch, read and open articles based on user's voice command.
- Leveraging **Alan AI** platform to design the voice dialog by writing custom scripts for speech intent and inference.
- Utilizing News-API to retrieve news articles based on filters such as keywords, category, and article source.

Readify | *ReactJS, Material UI, Python, Flask, MySQL, Machine Learning*　　　　Jan 2022 – April 2022
- Led a team of 4 to build a platform for users to explore books, create book lists, and get book recommendations.
- Engineered the frontend using **ReactJS**, and backend REST APIs using Python's **Flask** Framework; leveraged Figma for UI prototyping, and Material UI for creating a responsive layout.
- Processed raw book data for **300k+** book records using Pandas to build a **content-based** book recommendation system using features such as title, genre, author, and rating.
- Assisted team members to optimize recommendation algorithm resulting in **86%** reduction in response time.

RentALL | *Java, HTML5, CSS3, JavaScript, jQuery, Bootstrap, MySQL, AWS S3*　　　　Sept 2021 – Dec 2021
- Spearheaded a team of 3 to engineer a **full-stack web application** to offer rental and advertisement services.
- Integrated various features such as **OAuth**, product filtering, voice-activated search, Google Maps API, and chat-bot.
- Strategized sprint planning, backlog refinement, user stories management, and team meetings as a **Scrum Master.**
- Facilitated team members to deploy the web app on Heroku and configured **AWS S3** bucket to store product images.

Happy Gramps | *Flutter, Dart, SQLite, Figma*　　　　Jul 2019 – Mar 2020
- Devised a cross-platform app that offers a **fall detection** system and other safety features to senior citizens.
- Leveraged Flutter's geocoder library to notify emergency contacts about the user's **real-time location**.