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   *3.66 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*

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, PHP, SQL, HTML5, CSS3
Databases: MySQL, PostgreSQL, MongoDB, AWS DynamoDB
Frameworks: React.js, Spring Boot, React Native, JUnit, Hibernate, Flask, Bootstrap, Zustand
Technologies: Git, AWS(Lambda, S3, EventBridge, Glue, API Gateway), Postman, jQuery, JWT
Certifications: Oracle Certified Associate Java Programmer, MuleSoft Level-1 Developer

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, 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.
- Mentoring and facilitating training sessions for new joiners on FireForms, eDoc System and API development.

Associate Instructor, *Indiana University*   Jan 2022 – May 2022
- Mentored **30+** software engineering students in developing full-stack applications using Scrum methodology.
- Conducted sessions on plan-driven and Agile approaches, MVC, microservices, and concurrency in Agile process.
- Evaluated MVP of **8** teams for each sprint and provided constructive feedback for improvements.

Application Development Associate, *Accenture*   Jan 2021 – Jun 2021
- Automated dynamic routing of financial trade exceptions between Newgen and Salesforce system by developing **MuleSoft** REST APIs, reducing person-hours by **72%.**
- Facilitated data extraction from databases and SOAP web services by developing **8+** System APIs and publishing them as shared modules on Anypoint Exchange to expedite development.
- 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)*
- Designing and implementing an end-to-end energy demand forecasting solution using AWS services and Next.js.
- Preprocessing **1M** data points with AWS Glue and training a time series ML model using Amazon SageMaker.
- Automating data preprocessing, model training, and prediction generation with Amazon **EventBridge**.
- Leveraging ApexCharts to visualize energy usage insights for **10** different US regions.

Readify | *React.js, Material UI, Python, Flask, MySQL*
- Led a team of 4 to build a platform for users to explore books, create book lists, and get book recommendations.
- Engineered the front end using **React.js**, Material UI, and back end REST APIs using Python's **Flask** Framework.
- Built a content-based recommendation system for **45k+** books 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*
- 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 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 news articles based on keyword, category, and article source.