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, Zustand
Technologies: Git, AWS(S3, Lambda), 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 current Graduate eDoc System to Fireform and integrating Fireform with Salesforce CRM.
- Building REST APIs in Java Spring Boot to handle AJAX calls from Fireform and store/retrieve data from databases.
- Automated audit report generation by writing Python script using Pandas reducing person-hours by **80%**.
- Constructing a dashboard using React.js and Chart.js to visualize the audit reports and facilitate statistical analysis.
- Resolved a critical production failure in **4 hours** by performing a backup and updating Machforms to support PHP 8.

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.
- Evaluated MVP of **8** teams for each sprint and provided constructive feedback for improvements.

Application Development Associate, *Accenture*   Jan 2021 – Jun 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 those APIs 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, Alan AI, JavaScript, Zustand, NewsCatcher-API*   Sep 2022 – Nov 2022
- Developed a cross-platform **voice-assisted** news application using React Native to deliver narrated news articles.
- Integrated an AI-powered voice assistant to fetch, read and open articles based on the user's voice command.
- Leveraged **Alan AI** platform to design the voice dialog by writing custom scripts for speech intent and inference.
- Utilized NewsCatcher-API to retrieve news articles based on keywords, category, and article source.

Readify | *React.js, Material UI, Python, Flask, MySQL*   Jan 2022 – Apr 2022
- 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 30k+ 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*   Sep 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 chatbot.
- 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
- Managed a team of 2 to build a senior citizen safety app using **Flutter** that includes a fall detection system, location tracking services, and miscellaneous functionalities.
- Leveraged Flutter's geocoder library to notify emergency contacts about the user's **real-time location**.
- Incorporated priority-based note keeper, to-do task, and medicine reminder to aid the elderly suffering from dementia.