Shubham Bhagat

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EDUCATION

Masters of Science in Computer Science, *Indiana University Bloomington*　　　　Aug 2021 – May 2023
Courses: Database Technologies, Software Engineering, Applied Algorithms, Artificial Intelligence.　　GPA 3.43/4

Bachelor of Engineering in Computer Engineering, *University of Mumbai*　　　　Aug 2017 – Oct 2020
Courses: Operating Systems, Computer Network, Database Systems, OOP, Web Technology.　　GPA 8.6/10

SKILLS

Languages (Java, Python, HTML, CSS, JavaScript, PHP) | **Frameworks** (Bootstrap, Flutter, Hibernate, Spring Boot)
Database and Version Control (MySQL, PostgreSQL, MongoDB, Git, GitHub) | **Technologies** (JIRA, Maven, Postman)
Certification (Oracle Certified Associate Java Programmer, MuleSoft Level-1 Developer)

PROFESSIONAL EXPERIENCE

Associate Instructor, *Indiana University Bloomington*　　　　Jan 2022 – present
- Conducting sessions on plan-driven and **Agile** approach, **MVC** design pattern and concurrency in Agile process.
- Mentoring multiple teams to develop a real-world full-stack application following **Scrum** methodology.
- Evaluating MVP of teams for each sprint and providing feedback for improvements.

Application Development Associate, *Accenture*　　　　Jan 2021 – Jun 2021
- Developed **REST APIs** using MuleSoft to extract data from CSV files, Salesforce databases, **SOAP** web service; parsed XML data into **JSON** objects and applied **transformation** and **filtering** to the data.
- Deployed the API endpoints on Anypoint CloudHub and tested response payload using **Postman**.
- Automated **data integration** between Newgen and Salesforce system by developing REST APIs for redirecting trade exceptions to appropriate handlers; reduced man-hours by **72%**.
- Improved code quality and stability by writing **MUnit Tests** and **SonarQube** quality checks; ensured **80%** code coverage.
- Accomplished 4 months of training in Java core features and enterprise application concepts such as JUnit, JPA, **Hibernate** and **Spring** Framework.

Web Development Intern, *Sahu Technologies Pvt Ltd*　　　　Jun 2019 – Jul 2019
- Coordinated with team members to implement **front-end UI** of modules such as user identity and access management system, categorial display of products, navigation and search bar, and a user cart.
- Incorporated **Bootstrap** framework and **CSS media queries** for making the website **responsive**.

PROJECTS

RentALL - A Rental and Service Management System ([Link](#))　　　　Sep 2021 – Dec 2021
- Spearheaded a team of 3 to engineer a rental and advertisement platform involving **OAuth**, product filtering, textual search, and voice-activated search through **Web Speech API.**
- Utilized **Google Maps API** to display product location; incorporated chat messaging, **recommendation system, chatbot**, reviews, and complaints for user feedback.
- Engineered the front-end using HTML5, Bootstrap, JavaScript, jQuery, and back-end using Java and MySQL.
- Orchestrated sprint planning, backlog refinement, user stories management and team meetings as a **Scrum Master**.
- Facilitated team members to deploy web application on **Heroku** and configured **AWS S3 Bucket** to store product images.

Raichu - A Game-Playing AI Agent ([Link](#))　　　　Oct 2021 – Nov 2021
- Implemented a Game Playing AI Agent in Python for an 8x8 Go board game using the Minimax algorithm.
- Devised a custom **heuristic** function and incorporated **Alpha-Beta Pruning** to find the best move for a depth of 2 moves.
- Achieved a score of 90% by competing against similar game-playing AI agents.

Happy Gramps - A Senior Citizen Safety Application ([Link](#))　　　　Jul 2019 – Mar 2020
- Led a team of 2 to construct an android application that addresses the safety needs of senior citizens.
- Redesigned algorithm to use smartphone's gyroscope and accelerometer to compute threshold values for **fall detection.**
- Leveraged **flutter's geocoder library** to notify emergency contacts about the user's current location.
- Integrated priority-based note keeper, to-do task and medicine reminder to aid senior citizens suffering from dementia.

PUBLICATIONS

- **Happy Gramps: Senior Citizens Safety App - Using Fall Detection Mechanism and Miscellaneous Functionalities**
International Journal of Future Generation Communication and Networking (ISSN: 2233-7857)