HITANSHU SHAH

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Master's of Computer Science graduate and AWS Cloud Practitioner with over 2 years of software development experience, specializing in object-oriented programming and web development. Demonstrated proficiency in Java, Python, JavaScript, and SQL with a proven track record of troubleshooting and resolving complex software issues. Eager to leverage my skills and knowledge as a Software Developer to contribute to innovative software solutions and develop my expertise in a collaborative environment.

EDUCATION

Master's in Computer Science with Specialization in AI, London, Canada   **August 2022 - December 2023**
Western University - CGPA - 3.9

Bachelor's of Engineering in Information Technology, Mumbai, India   **June 2017 - May 2021**
Mumbai University - CGPA - 3.7

WORK EXPERIENCE

Western University, *Graduate Teaching Assistant*   **January 2023 – December 2023**

- I instructed students in Python coding and introduced them to Object-Oriented Programming to familiarize them with the dynamic programming, and assisted with building dynamic programs by integrating Java with Spring for database connections. As a result, compared to the other TAs, 40% more students completed their experiments
- Developed a grading platform using Angular, enabling students to track assignments and exam grades, fostering a more transparent and organized learning environment, and improving the time to grade by 20%.

Tata Consultancy Services*, Systems Engineer*   **June 2021 – June 2022**

- Implemented a feature enhancement in client software using Java, Angular and Javascript, enabling dynamic reflection of price changes and real-time rate adjustments by integrating Spring Boot for database connectivity for real-time rate adjustments, resulting in a 10% efficiency improvement in mortgage infrastructure processes..
- I led a 4-month project where my task involved enhancing existing features that allowed users to filter and select deals based on their preferences, for which I used Javascript and Angular for frontend and developed a reusable Java API to call and filter deals based on the selection. It reduced system errors by 30% and minimized downtime through proactive maintenance and error resolution in existing systems.
- Effectively worked under a pressure situation during production deployment issues, fostering a supportive team environment and ensuring timely resolution, providing support for the following weeks and honing my problem solving skills.

Tech Truffle Technologies, *Full Stack Developer*   **Aug 2019 – March 2020**

- Implemented a website rating system using Angular, Java and API calls to manage user interactions. Reviews are displayed on product pages by fetching details using Spring Framework for data extraction and transformation. This architecture improved user experience, leading to a 20% increase in reviews.
- Developed a real-time appointment booking system using Angular, HTML, CSS for frontend and Javascript, PHP for backend to trigger SQL queries, which decreased the clients time for scheduling appointments 40-60 minutes.

ACADEMIC PROJECTS

Emotional Health Detection System - ML Project (Python,LSTM, NLP, BERT):

- Developed an NLP-based LSTM chatbot system achieving 92% accuracy in predicting and responding to user emotions, by integrating BERT Transformer with LSTM and training a robust dataset of 60,000 sentences.
- Created an algorithm to detect overall user emotion after the entire conversation and suggest remedies based on probability, store user details and emotions in a database, and generate daily or weekly reports.

Inhale: Meditation App - Full Stack Project (Flutter, Naive Bayes, TF-IDF):

- Developed a Flutter based meditation app with 10 meditation modes and personal plans, each consisting of various music tracks by integrating Naive Bayes for mood prediction and monitoring, and TF-IDF for tailored content suggestions to enhance user experience.
- Additionally, the app sends daily reminders based on the user's chosen meditation plan, leading to a remarkable 20% improvement in user-reported well-being.

Two-Way Locking System - IoT Project (Angular, HTML, CSS, Arduino):

- Created an IoT-based security mechanism by integrating IR and Ultrasonic sensors, enabling it to detect intruders and notify homeowners via email and an activated buzzer using angular and Arduino programming.
- The system has an impressive 98% detection rate, significantly enhancing security. As a result, it successfully reduced break-ins by 30% in a test neighborhood.

Web Warden: College Student Portal - Database Project (MySQL,HTML, CSS, Javascript, PHP):

- Built a website to efficiently track attendance and facilitate notes sharing by integrating MySQL for data management, HTML5/CSS for the user interface, and JavaScript to fetch notes and attendance directly into excel report using PHP.
- Developed separate portals for professors to mark attendance and upload notes, and for students to track attendance, ask questions, and share notes, resulting in an 80% adoption rate among students and improved efficiency for professors.

TECHNICAL SKILLS

▪ **Languages:** Python, Java, C,C++,C#, Flutter, Dart
▪ **Web Technologies:** Node.js, Angular, React, Bootstrap, HTML, CSS, Javascript, Typescript
▪ **AI & ML:** NLP, Neural Networks, Transformers, Deep Learning, Naive Bayes, TF-IDF, LSTM, LLM
▪ **Database Technologies**: MySQL, PHP, SpringBoot, MongoDB, NoSQL, PostgreSQL
▪ **AWS Services:** EC2, Lambda, EMR, SQS, SNS, Glue, IAM, ECS, RDS, CloudFront, Cognito, SageMaker.

PUBLICATIONS

Presented Paper in 2021 IEEE Asian Conference on Innovation in Technology - Published on 4th October, 2021.

ISBN: 978-1-7281-8403-6
Hitanshu Shah, Shreya Sakpal, Pravin Anilkumar and Nileema Pathak., *"EDRA – An Emotion Health Detection and Recognition Assistant"*, IEEE Asian Conference on Innovation in Technology, 27-29 August 2021.

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Bolt IOT and ML Training with 84%.