HARSHIL SHAH

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EDUCATION

California State University Long Beach   August 2024 - April 2026
Master of Science in Computer Science   GPA: 3.67 / 4
Coursework: Software Engineering, Analysis Of Algorithms, Artificial Intelligence

The Maharaja Sayajirao University Of Baroda   July 2019 - May 2023
Bachelor of Engineering in Computer Science and Engineering   GPA: 3.94 / 4
Coursework: Object-Oriented Programming, Database Management System, Operating System, Computer Networks

EXPERIENCE

Confidosoft Solutions   Vadodara, India
Jr. Software Developer   January 2023 - July 2024

- Implemented automated data extraction tools using **Python** libraries such as **Tesseract** and **PyPDF2**, processing over **10,000** PDFs monthly and reducing manual effort by **40%**.
- Optimized APIs performing **CRUD operations**, simplifying complex database queries and reducing execution time by **45%**, resulting in faster data retrieval and improved system performance.
- Developed a sports activity management platform using **Angular**, **PostgreSQL** and **Python**, enabling real-time tracking of player stats, attendance and performance, which improved usability for **100** plus sports teams and reduced manual data entry by **50%**.
- Designed and optimized user experiences by implementing innovative **UI/UX** designs using **SCSS, Tailwind CSS** focused on accessibility and usability, blending modern aesthetics with intuitive navigation, and enhancing performance through advanced **image optimization techniques** such as **lazy loading and image compression** which **reduced load time by 30%** and **drove a 40% increase in user engagement and satisfaction**.
- Deployed applications on **AWS** to ensure high availability and refined performance for diverse end-users.
- Led database testing and integration across **MSSQL, MySQL, Oracle DB, Informix, DB2** and **PostgreSQL**, leveraging **DataMapper** to ensure **99%** data accuracy and alignment between systems.
- Contributed to the deployment of **Neuron ESB endpoint hosts in Docker**, improving integration across hybrid environments and reducing deployment time by **25%**.
- Customized **Odoo ERP modules** to optimize Accounting workflows, Inventory management and HR operations, enhancing process efficiency by **35%** and accuracy in data management.

PROJECTS

HotelSphere

- Integrated a scalable hotel booking platform leveraging **Spring Boot** and **MySQL**, enabling real-time room management and streamlining booking processes for administrators and customers, improving booking accuracy by 50%.
- Designed an intuitive filtering system using **React** and **RESTful APIs**, allowing administrators to efficiently search and manage bookings by parameters such as booking ID, room type and guest composition, reducing operational overhead by 40%.
- Enhanced platform performance and security by implementing **JWT-based authentication** and integrating **AWS S3** for secure and scalable storage of user data and room images, ensuring seamless responsiveness and reducing server storage costs by 25%.

MeraPe

- Engineered a payment platform with the help of **React Native, CSS, JavaScript, MongoDB, NodeJS** and **Firebase**, enabling schools to securely register and process fee payments from parents and guardians.
- Executed a discount feature with real-time notifications, offering 5% to 10% incentives for early payments while keeping users informed about payment status, deadlines and transaction history, boosting timely payments, improving cash flow and enhancing user engagement.

SKILLS

Technical Proficiencies: C, C++, C#, Java, Python, .NET Core, JavaScript, HTML, CSS, Bootstrap, React, Angular, Node.js, Spring Boot, Django, Flutter, WordPress, PHP, SQL, Linux
Tools: AWS, Git, GitHub, Docker, VS Code, PyCharm, Eclipse IDE, Figma, Google Cloud Platform
Databases: MySQL, PostgreSQL, MongoDB, MSSQL, OracleDB, Firebase

CERTIFICATIONS

Generative AI Certificate | Software Development Certificate | Google Cloud Skill Badges | HackerRank Certificate