

HARSHIL SHAH

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EDUCATION

California State University Long Beach

Master of Science in Computer Science

August 2024 - Expected 2026

GPA: 3.7 / 4

Coursework: Software Engineering, Analysis Of Algorithms, Artificial Intelligence

The Maharaja Sayajirao University Of Baroda

Bachelor of Engineering in Computer Science and Engineering

July 2019 - May 2023

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.
- 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 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.
- Customized **Odoo ERP** modules to optimize Accounting workflows, Inventory management and HR operations, enhancing process efficiency by 35% and accuracy in data management.

PROJECTS

Reper

- Developed an **AI-powered research platform** in **Python** that automatically fetches academic papers from **Google Scholar** and **ArXiv**, providing users with instant access to current literature on any given topic.
- Implemented a seamless **data processing pipeline** using **NumPy**, **OpenAI** and **PyTorch**, enabling comprehensive topic exploration and producing insightful literature summaries for research professionals.
- Built an intuitive frontend with **Streamlit** that lets users generate, refine and review topic-specific literature reviews in real time, enhancing the overall user experience for academics and students.
- Integrated the **Gemini API** for advanced data retrieval and content generation, allowing the platform to dynamically expand domain coverage and swiftly adapt to specialized or emerging research areas.

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, thereby improving booking accuracy.
- 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%.
- Integrated **GitHub Actions** for **CI/CD** to streamline development and deployment processes.

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](#)