Harsh Thoriya

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EXPERIENCE

Software Engineer   July 2021 – July 2024
Bacancy
- **Led two full-lifecycle projects** built using Java, JavaScript, TypeScript, Node.js, React.js, Next.js ensuring high-quality delivery
- Designed and implemented 4 scalable, high-performance software solutions, **doubling user capacity**, and optimized database designs for scalability and efficiency using SQL technology
- **Enhanced** server performance by **up to 50%** through advanced **caching and clustering**, resulting in faster load times and improved efficiency
- Boosted application performance by **25%** with expert **query optimization**, reducing execution time and providing high-impact solutions to complex challenges
- Introduced Agile principles & **daily stand-ups** to revamp project workflows, promoting collaboration and clarity
- Addressed critical bugs within strict timelines, incorporated key functionalities to enhance user experience while upholding **stringent software quality standards**, resulting in a **20% surge in user engagement**

Software Developer - Internship   May 2019 – June 2019
Bhaskaracharya Institute For Space Applications and Geo-Informatics
- Developed a robust desktop application utilizing **PyQT5 & Elasticsearch** to index content from multiple PDF files, resulting in increase in search efficiency
- Visualization of the search results on different graphs using **Matplotlib** library of python.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, C, C++, SQL (Postgres), NoSQL (MongoDB), HTML, CSS, Python
Technology & Frameworks: React, Node.js, Next.js, Express.js, Nest.js, PM2, RabbitMQ, Redis, TailwindCSS
Developer Tools: Git, Docker, Amazon Web Services, VS Code, Trello, Jira, Figma

PROJECTS

Supply Chain Management System | *Java, Spring-Boot, React.js, Tailwind, MongoDB*
- Built the system to manage a **network of businesses** that deliver **products and services to end customers**
- The system provides **sales forecasts** for products in the warehouse
- Employees can make informed decisions on **future purchases based on predicted demand**

Veterinary Clinic/Hospitals Management System | *Node.js, Golang, React.js, PostgreSQL, Express, JavaScript*
- Engineered the full-stack application with multi-tenant back-end to support multiple clients and modules such as the Reminder, Vaccine, Report, Inventory, Charges, and Payment, leading to at least a **30% increase in revenue**
- Optimized **database performance up to 45%** by analyzing and restructuring slow-running queries, implementing indexing, and reducing query execution time through careful optimization of joins and data retrieval methods

Donation Site for Charities and Fundraisers | *Node.js, Next.js, React.js, Stripe, AWS EC2, MySQL, JavaScript*
- Integrated **payment gateway** with use of **Stripe**, subscription, profile & news modules. The new system now processes over **1,000 transactions** daily without manual intervention
- Improved performance by **40%** with use of **Redis as cashing mechanism**
- Increased team efficiency by **15%** with use of **GitHub CI/CD** pipeline for deployment

ACHIEVEMENTS & CERTIFICATES

- Published 7 technical articles on geeksforgeeks.org **(165K+ views)**
- **Elite + Silver Medal** in Design and Analysis of Algorithms by NPTEL
- **Elite** Certificate in Programming, Data Structures and Algorithms by NPTEL
- **Cisco Certified Network Associate** Routing & Switching

EDUCATION

California State University   Long Beach, California
Master of Science in Computer Science (GPA - 4/4)   *August 2024 – April 2026 (Exp)*

Charotar University of Science and Technology   Anand, India
Bachelor of Technology in Computer Engineering (GPA - 9.33/10)   *Aug. 2017 – May 2021*