

# Harsh Thoriya

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## EDUCATION

### California State University

*Master of Science in Computer Science*

Long Beach, California

August 2024 – December 2025 (Exp)

### Charotar University of Science and Technology

*Bachelor of Technology in Computer Engineering (GPA - 3.73)*

Anand, India

Aug. 2017 – May 2021

## EXPERIENCE

### Senior Software Engineer

January 2021 – July 2024

*Bacancy*

*Ahmedabad, India*

- Led two full-lifecycle projects using Java, Javascript, Node.js, React.js, Next.js ensuring high-quality delivery.
- Architected 4 scalable, high-performance software & optimized database designs for long-term growth & efficiency.
- Enhanced server performance by up to 50% through advanced caching and clustering, resulting in faster load times and improved efficiency. Boosted application performance with expert query optimization, reducing execution time and providing high-impact solutions to complex challenges.
- Resolved critical bugs under tight deadlines, deployed seamless applications, and introduced key features to elevate user experience and functionality.
- Mentored 5 junior developers and conducted technical sessions for a group of 10 developers, fostering continuous learning and growth within the team.
- Redefined project workflows by introducing Agile principles and daily stand-ups, which fostered collaboration and clarity; these changes contributed to the successful launch of 5 major projects within targeted deadlines.

### Software Developer - Internship

May 2019 – June 2019

*Bhaskaracharya Institute For Space Applications and Geo-Informatics*

*Gandhinagar, India*

- Constructed a powerful desktop application using PyQt5 & Elasticsearch that indexes the content of several PDF files, improving search speed and accuracy, and facilitating efficient data extraction during project workflows
- Visualization of the search results on different graphs using matplotlib library of python.

## PROJECTS

### Customer Churn Prediction | Python, Pandas, NumPy, Matplotlib, Scikit-Learn, TensorFlow, Keras

- Applied algorithms like Logistic Regression and Random Forest, optimizing accuracy & recall via cross-validation.
- Implemented the model for real-time churn risk analysis, improving retention and reducing churn rates.
- Employed algorithms such as Logistic Regression, Random Forest, and Gradient Boosting.

### Veterinary Clinic/Hospitals Management System | Node.js, React.js, PostgreSQL, Express, Sequelize, 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 caching mechanism.
- Increased team efficiency by 15% with use of Github CI/CD pipeline for deployment.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, TypeScript, C/C++, SQL (Postgres), HTML/CSS, Python

**Technology & Frameworks:** React, Node.js, Next.js, Express.js, Nest.js, PM2, RabbitMQ, Redis

**Developer Tools:** Git, Docker, Amazon Web Services, VS Code, Trello, Jira, Figma

## 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