# Dhruv Shah

Stony Brook, New York

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### **EDUCATION**

# Masters of Science in Computer Science

Aug 2024 - Jun 2026 New York, USA

Stony Brook University

- Course Work: Analysis of Algorithms, Data Science Fundamentals

Bachelor of Technology in Computer Science

Nirma University: CGPA 8.61 / 10.0

Jun 2020 - May 2024 Gujarat, India

- Course Work: Operating Systems, Software Engineering, System Design

## SKILLS

Languages : Java, JavaScript, Bootstrap, C, CSS, HTML, C++, C#, Python, Kotlin

Frameworks and Databases: React.js, Node.js, Spring Boot, SocketIO, Express.js, MySQL, MongoDB, Oracle SQL Libraries: NumPv. Pandas, SciPv. Seaborn, Tensorflow, Pyspark, Keras, Scikit-learn, PyTorch.

: NumPy, Pandas, SciPy, Seaborn, Tensorflow, Pyspark, Keras, Scikit-learn, PyTorch,

OpenCV, NLTK, Matplotlib, Librosa

Tools and Platforms : Git, GitHub, Docker, Spark, Hadoop, Power BI, SAP B-1, Android Studio, Firebase

Work Experience

## Software Engineer | MindQuad Solutions, Gujarat, India

Jun 2023 – May 2024

- Engineered Gate Pass and Quality Control modules using ASP.NET(C#) and SAP B1, integrating real-time data from industrial weighing scales to SAP, boosting operational efficiency by 30% and achieving 98% accuracy in weight tracking.
- Worked closely with a cross-functional team to architect, develop, and rigorously test a high-performance scalable system, streamlining quality control workflows by automating and integrating processes across Inward, In-Process, and Pre-Dispatch stages, leading to enhanced compliance within the SAP environment.
- Created and deployed advanced reporting solutions using **Crystal Reports**, enabling transformative data-driven strategies with sophisticated **visualizations and real-time analytics**, significantly slashing reporting time by 40%.

# Software Developer | Spinfluence Digital, Gujarat, India

May 2022 – Jul 2022

- Led full-stack development of a website using **Spring Boot and MySQL**, implementing advanced features like asynchronous data processing and caching to enhance responsiveness and security, resulting in a 60% reduction in page load times.
- Spearheaded API responsiveness improvements, reducing latency from 4 seconds to 1 second, and established robust security
  protocols using OAuth 2.0 and JWT authentication, bolstering data integrity and access control.
- Facilitated strategic discussions with non-technical stakeholders, effectively bridging the gap between technical and business aspects; this collaborative approach resulted in a 25% reduction in project implementation time.

# Data Scientist | ShapeAI

Jun 2021 - Aug 2021

- Optimized YOLO-based object detection for manufacturing, achieving 97.5% mAP and 50 FPS, applied to counting items like bottles and boxes in high-throughput manufacturing environments.
- Orchestrated the YOLO system, embedding intelligent quality assurance to detect even the tiniest defects in bottles and boxes; automating detection, eliminating subpar products, and reducing defect rates.

## Projects

### CodeCraft Co. | React.js, Tailwind CSS, Node.js, Express.js, MongoDB, Socket.io | GitHub

- Developed CodeCraft Co., a web application for hosting coding contests, leveraging React, Tailwind CSS, Node.js, Express, and MongoDB to efficiently manage a growing user base.
- Integrated Socket.IO for real-time ranklists and submissions, ensuring sub-200ms response times, and incorporated the Codeforces API to provide a diverse problem set.
- Strengthened user security by implementing robust authentication systems, including secure sign-up, email verification, and login protocols, effectively reducing the risk of account breaches and enhancing overall platform integrity.

### Aahar Application | Android Studio, Java, Glide | GitHub

- Innovated the Aahar app in **Android Studio using Java**, architecting a user-friendly interface and integrating **Firebase** backend, while targeting a reach of up to 500 users in initial simulations.
- Engineered secure and reliable transactions by implementing **AES encryption** and leveraging **Firebase** Realtime Database, while designing and simulating partnerships with 10 local NGOs to streamline food donation processes.
- Integrated Twilio API for automated SMS notifications to donors and NGOs, and utilized the Retrofit library to interact with a RESTful API, enabling real-time updates on NGO locations and current donation needs.

### EduManage: GUI Based Student Examination Management System | Python, MySql, Tkinter | GitHub

- Built EduManage, a GUI-based Student Examination Management System in **Python using Tkinter**, effectively managing student data, exam details, results, and attendance.
- Refined data operations by integrating MySQL, incorporating sophisticated features for managing student and subject information, result tracking, and attendance supervision.

## Position of Responsibility

 ${\bf Graduate} \ {\bf Teaching} \ {\bf Assistant} \ {\bf for} \ {\bf Digital} \ {\bf Intelligence} \ | \ {\bf Stony} \ {\bf Brook} \ {\bf University}$ 

Aug 2024 - Present