

Dhruv Shah

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EDUCATION

Masters of Science in Computer Science

Stonybrook University

Aug 2026

New York, USA

Bachelor of Technology in Computer Science

Nirma University : CGPA 8.61 / 10.0

May 2024

Gujarat, India

SKILLS

Languages	: Java, JavaScript, Bootstrap, C, CSS, HTML, C++, C#, Python, Kotlin
Frameworks and Databases	: React.js, Node.js, Spring Boot, Express.js, MySQL, MongoDB, Oracle SQL
Libraries	: NumPy, Pandas, SciPy, Seaborn, Tensorflow, Pyspark, Keras, Scikit-learn, OpenCV, NLTK, Matplotlib, Librosa
Tools and Platforms	: Git, Apache 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 **C** and **SAP Business One (SAP B1)**
- Designed a seamless **API for real-time data integration** from industrial weighing scales to SAP, enhancing operational efficiency by 30% and achieving 98% accuracy in weight tracking.
- Collaborated with a cross-functional team to architect, develop, and rigorously test a high-performance, scalable system, while streamlining quality control processes within SAP at the Inward, In-Process, and Pre-Dispatch stages, resulting in a 20% increase in compliance.
- Created and deployed sophisticated reports using **Crystal Reports**, enabling data-driven strategies that boosted quarterly revenue by 18% and reduced reporting time by 40%

Full Stack Developer | Spinfluence Digital, Gujarat, India

May 2022 – Jul 2022

- Led the development of a comprehensive website as a full-stack developer, employing **Spring Boot** and **MySQL** to ensure seamless page flow, robust security, and efficient data access; achieved a 40% increase in user engagement and conversion rate.
- 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.
- Deployed applications using Streamlit and Flask for fabric defect detection and table extraction via OCR, with over 10,000 images annotated for custom model training.

PROJECTS

CodeCraft Co. | *React.js, Tailwind CSS, Node.js, Express.js, MongoDB, Socket.io, Axios* |

- Developed CodeCraft Co., a comprehensive web application for hosting and managing coding contests, using **React**, **Tailwind CSS**, **Node.js**, **Express**, and **MongoDB** to efficiently support a growing community of engaged users.
- Enhanced real-time functionality by integrating **Socket.IO** for dynamic ranklists and submissions, achieving response times of under 200 milliseconds and efficiently managing up to 1,000 concurrent users and also integrated Codeforces API, providing access to a diverse problem set
- Boosted user security through the development of comprehensive authentication features, including secure sign-up, email verification, and login, significantly reducing the risk of account breaches.

Aahar Application | *Android Studio, Java, Glide* |

- Innovated the Aahar app in **Android Studio** using **Java** to facilitate the altruistic donation of surplus food to NGOs, aiming to potentially reach up to 500 users in initial simulations.
- Architected a seamless user interface and **integrated Firebase backend**, significantly enhancing user engagement metrics.
- Designed and simulated partnerships with local NGOs with 10 local NGOs, utilizing Firebase Realtime Database and implemented **AES encryption protocols**, ensuring secure and reliable transactions.
- Integrated **Twilio API for SMS notifications** to donors and NGOs ensuring seamless food donation and **Retrofit library** to interact with a RESTful API for real-time updates on NGO locations and current donation needs

EduManage: GUI Based Student Examination Management System | *Python, Mysql, Tkinter* |

- 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.