

Dixit Parkhiya | Software Engineer

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With an MTech in Computer Science from **IIT Madras** and 1 year of hands-on experience in web technology, I am eager to contribute as a Software Developer. My expertise lies in crafting innovative and scalable software solutions that help elevate company reputation and deliver impactful results.

Education

Program	Institution/Board	%/CGPA	Year
M.Tech. (Computer Science & Engg.)	Indian Institute of Technology Madras	7.51	2023
B.Tech. (Computer Science & Engg.)	Indus University, Ahmedabad, (Gujarat)	9.43	2020
12th (Senior Secondary Education)	Gujarat Secondary Education Board	81.6%	2016
10th (Secondary Education)	Gujarat Higher Secondary Education Board	82.0%	2014

Work Experience

1. Associate Engineer

Aug 2023 - Present

Crayon Data (Chennai)

- Contributed to the development and delivery of dynamic, user-friendly interfaces for the online platforms of prominent banking institutions like HSBC.
- Transformed a website previously built on **ReactJS** into **NextJS**, improving its performance and scalability by 20%.
- Played a key role in the development and success of the "Demo Portal" project, built on **NextJS**, supporting the company's strategic objectives.
- Developed the 'DaaS Dashboard,' leveraging **NextJS** and **Tailwind CSS** for frontend, and **FastAPI** for backend development.
- Technologies Used:** NextJS, ReactJS, FastAPI, MySQL, TailwindCSS, MaterialUI, ShadCN

Key Projects

1. Secure Application on Genode OS

June 2022 - July 2023

M.Tech - Final Year Project / Guide: Dr. Chester Rebeiro

- Developed a secure cryptographic wallet using the **Genode** OS framework.
- Ported Genode OS for compatibility with **ARM** and **x86** processors.
- Enabled Java support on Genode OS, integrating the **javax.crypto** library for cryptographic operations.
- Built and released an application on Genode OS using the **GOA** tool.
- Technologies Used:** C/C++, Genode, Sculpt OS, Docker, Qemu, Java, javax.crypto, GOA tool

2. Healthcare Web Portal

Jan 2020 - May 2020

B.Tech - Final Year Project / Guide: Prof. Khushbu Maurya

- Developed a **Web portal** for E-HealthCare system using Aadhaar card for patient access, replacing traditional file systems.
- Developed the web portal using the **Django** framework.
- Technologies Used:** HTML, CSS, JavaScript, Bootstrap, Django

3. Restaurant Review App

May 2018 - June 2018

B.Tech - Final Year Project / Guide: Prof. Khushbu Maurya

- Awarded the Udacity "**Mobile Web Specialist Nanodegree**" through the Google India Scholarship Program.
- Developed a restaurant review portal featuring menu, timings, and location.
- Converted the website to a **Progressive Web App (PWA)** for improved reliability.

Course Projects

1. PRML Data Contest

Jul-Nov 2021

Prof. Balaraman Ravindran, Team Size: 2

Pattern Recognition and Machine Learning

- Build supervised models to predict each of the six clinical descriptors using gene expression data of patients with neurodegenerative diseases..
- Implemented Algorithms: Decision Tree, Adaboost, randomForest.

Online Courses

- Generative AI Courses [Coursera]
 - Generative AI for Everyone (Andrew Ng)
 - AI Apps with ChatGPT, Dall-E, and GPT-4
 - JavaScript RAG Web Apps with LlamaIndex
 - Automated Reasoning with GPT Assistant API: ReAct Agents
- Deep Learning(CS7015) by Mitesh Khapra - youtube/nptel
- Mobile Web Specialist Nanodegree (Udacity)
- Data Engineering Essentials using SQL, Python, and PySpark (Udemy)
- Building Real-Time REST APIs with Java Spring Boot (Udemy)

Technical Skills

- **Programming Languages:** C, C++, Python, JavaScript, TypeScript, SQL, Java
- **Frontend Technologies:** ReactJS, NextJS, PWA, Tailwind CSS, Material UI
- **Backend Technologies:** FastAPI, Django, Spring Boot, NodeJS
- **DevOps:** Docker, Kubernetes, Qemu
- **Cryptography:** javax.crypto, Genode OS, ARM, x86 processors
- **Machine Learning:** Decision Trees, Adaboost, Random Forest, Python (Pandas, NumPy)
- **API Development:** RESTful APIs
- **Database Technologies:** SQL, PostgreSQL, MongoDB
- **Version Control:** Git (GitHub, GitLab, Bitbucket)

Achievements

- Secured **All India Rank 174** in GATE CSE 2021, among 1 lakh students.
- Solved 800+ data structure and algorithm challenges on LeetCode, demonstrating strong problem-solving skills.

Positions of Responsibility

- **Teaching Assistant**, CSE Department, IIT Madras (July 2022 - June 2023)
 - Secure Systems Engineering (Jan 2023 - June 2023)
 - CAD for VLSI course (July 2022 - Dec 2022)
 - Discrete Mathematics for Computer Science (Jan 2022 - May 2022)