

Hamza Memon

Software Developer | Mumbai, Maharashtra, India
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Education

Shah & Anchor Kutchhi Engineering College B.Tech in Electronics and Computer Science	Mumbai, India Sep 2025 - Expected Jun 2028
Anjuman-I-Islam's Abdul Razzaq Kalsekar Polytechnic Diploma in Computer Engineering; 74.23%, First Class	Mumbai, India 2022 - 2025

Experience

Technology Intern NSE Cogencis	Jun 2026 - Present Mumbai, India
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- Built Python crawling and automation workflows covering 50+ mutual fund websites and public-data sources including AGMARKNET, handling varied site structures and document formats.
- Developed pipelines to extract financial data and tables from scanned, rotated, and irregular PDF documents using OCR and document parsing.
- Applied TF-IDF text classification and investigated source changes and extraction failures to support document categorization and pipeline reliability.

Freelance Developer Line of Energy VTC and other clients	Selected client engagements Remote
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- Line of Energy (Nov 2024 - Jan 2026):** Built a full-stack community hub, bot-driven workflows, and two C++ tracker integrations connecting activity data with platform automation.
- Developed custom **Java plugins and mods** for Minecraft server owners during early freelance work. Other client engagements included Crab Cove, Guild PVP, GrBVariety, and RostTost (2022).
- Contributed to virtual trucking software for Coastal Transport VTC (Jan - Oct 2024) and automation/system development for LinuxWorld Informatics (Jan - Mar 2024).
- Confidential esports simulator:** Worked as a programmer within a large team on a racing training simulator informed by driving telemetry and analyst feedback. Game, team, and client identities are covered by NDA.

Founder & Technical Lead Odyssey VTC	Jul 2023 - Jan 2025 Remote
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- Built Discord bots, onboarding workflows, and internal management systems for an international gaming community; managed technical infrastructure and coordinated events and partnerships.

Earlier internship: VISUAL LABS, Mumbai (Jun - Jul 2024); contributed to collaborative software development projects.

Selected Projects

VoiceFX — Python, C++, PySide6, PyTorch	Source
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- Built a CPU-only Windows voice-effects app combining native C++ DSP with optional pretrained LLVMC voice conversion, audio routing controls, live meters, and saved presets.
- Implemented bounded audio queues and playback deadlines to prevent accumulating delay; added synthetic audio-driver, DSP, character, and UI tests with Windows CI configuration.

NexView — Next.js, TypeScript, MongoDB, NextAuth	Source
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- Developed a YouTube learning-session prototype with Google sign-in, topic-based sessions, and MongoDB persistence for saved videos, likes, and viewing history.
- Integrated YouTube search and embedded playback, paginated discovery, custom player controls, and a Pomodoro timer with browser notifications.

DISARM-AI — FastAPI, Next.js, Gemini API, React Native	Source
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- Built a disaster-response prototype with weighted flood-risk scoring, priority-based resource allocation, map dashboards, and Gemini-generated recommendations.
- Connected FastAPI services with web map dashboards and an Expo mobile prototype; included Docker deployment configuration. Placed 4th at TechSprint Hackathon 2025.

Research

Co-author & Presenter, IEEE ASIACONF 2026 Machine Learning for Early Disease Detection: A Hybrid Ensemble Framework Integrating Multi-Modal Clinical Data. Reviewed literature and proposed an architecture combining clinical-data ensembles, ResNet-50 imaging, attention fusion, and SHAP/LIME explanations.	31 Aug 2026, Pune
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Technical Skills

Languages: Python, JavaScript, TypeScript, C++, Java, SQL

Web & Backend: FastAPI, Django, Next.js, React, Express.js, REST APIs, MongoDB, SQLite
Tools & Areas: Git, Docker, Linux, automation, web crawling, OCR, data pipelines, AI/ML