Monil Mehta

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Education

SVKM's Dwarkadas J Sanghvi College Of Engineering   CGPA - 9.58/10   **2022 – 2026**
Bachelor of Technology (B.Tech) in Computer Engineering   *Mumbai, India*
Coursework : Data Structures, Computer Networks,Database Management, Operating Systems, Web Design, Python,Java,C

Professional Experience

Software Developer Intern – Miscot System Pvt Ltd   **January 2025 - March 2025**
- Developed Python-based Aadhaar Photos storage optimization algorithms, later converted to C#, reducing file size by 70% (JPEG to TIFF: 7MB → 2MB, JPEG to PDF: 2.5MB) for improved cloud storage efficiency.
- Upgraded an outdated Angular codebase to Angular v19, added newer modules for form based data intake to database, enhancing performance, security, and maintainability.

QA and Test Automation Intern – Intermind Digital LLP   **June 2024 - September 2024**
- Automated 25+ automation scripts in Python using Selenium WebDrivers, reducing regression testing time by 20%.
- Executed manual test cases for testing MySENCO Gold and Tata ELXSI applications, improving usability scores by reporting and fixing issues, reducing development time by 15%.
- Designed an internal tool featuring an interactive dashboard for organizing, creating, and tracking various test cases.

Full Stack Developer Intern – Orinova Innovation Technology Pvt Ltd   **April 2024 - May 2024**
- Delivered two full-fledged frontend applications in ReactJS, including a 10+ page website and a SPA. Integrated Google Analytics for traffic insights and deployed both on a CMS server. **Study Abroad** and **Admissions Help**.

Projects

Songfer | *Next.js, Django REST, Redis, Celery*   **Link**   **April 2025 – May 2025**
- Developed **Songfer**, a music and playlist downloader supporting high-quality downloads with cover art and metadata.
- Implemented Redis caching and async download queues, **reducing backend load by 30%** and **increasing download speeds by 60%**.
- Devised a **KMeans-based recommendation engine** using user listening patterns, improving engagement **25%**.

Lingual | *Expo, Flask, MongoDB, YOLO-World, Whisper v3 -* **Link**   **February 2025 - April 2025**
- Built a cross-platform mobile app supporting **10+ localized languages**, enabling real-time translation, object detection and educational tools for Android.
- Streamlined API efficiency by **40%** using Flask modules and optimized MongoDB queries.
- Seamlessly connected **YOLO-World for object detection** and **Whisper v3 for audio transcription**, cutting media processing lag by **50%** with async task queues, for faster processing.

SocialFlow | *Next.js, Node.js, MongoDB, WebSockets, AWS S3* **Link**   **February 2025 - April 2025**
- Crafted a full-stack social media platform with user CRUD, individual and group chat, and interactive posts.
- Designed a mobile-responsive frontend in Next.js with optimized state management and Axios interceptors, **reducing client-server latency by 35%** and enhancing session reliability.
- Boosted user engagement by **30%** through S3 media uploads, hashtag search and a **graph-based recommendation system** for personalized content discovery.

Leadership and Activities

JPMC College to Corporate Program   **Mar 2024–Present**
- Selected for a prestigious external engagement program with JPMorgan Chase & Co., covering frontend development, cloud computing, and enterprise software practices.Gained hands-on experience in agile methodologies, DevOps, and FinTech applications through interactive workshops and mentorship from industry experts.

DJ Unicode   **October 2023–Present**
Full Stack Django Mentor   *College*
- Mentoring a group of 4 juniors in full-stack development with a focus on **Django, DRF, API design, ReactJS**
- Conducted a hands-on Git and GitHub workshop for **50+ students**, covering version control fundamentals and collaborative workflows; currently leading a team of **10 juniors** in building a **book marketplace platform** .

Hackathons and Open Source
- Completed **Hacktoberfest 2024** with 9 quality pull requests across diverse open-source repositories.
- Participated in **10+ hackathons**, securing 1 runner-up finish and becoming a finalist in 2 events.

Technical Skills

Languages: C++, Python, JavaScript, C, SQL, TypeScript, Java
Frameworks & Libraries: NextJS, React.js, Node.js, Express.js, Django, NumPy, Pandas, Scikit-Learn, Computer Vision.
Databases: MongoDB, PostgreSQL, MySQL, Supabase
Tools & Technologies: Git, GitHub, VS Code, Docker, AWS