

JASH MADHANI

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EDUCATION

Bachelor of Technology in Information Technology, Honors in DevOps

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India

2024 - Present

CGPA: 9.26/10.0

TECHNICAL SKILLS

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

Frameworks: React.js, Next.js, Node.js, Express.js, Flutter, Tailwind CSS, FastAPI

Databases: MySQL, PostgreSQL, MongoDB

Developer Tools: Git, GitHub, Docker, VS Code, Xcode, Jupyter Notebook, Figma

Related Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Operating Systems

EXPERIENCE

DJSCSI - Computer Society of India | Marketing Executive

Sept 2025 - Present

- Collaborated on creative marketing strategies and raised capital for two flagship events.

MUNSOC - Model United Nations Society | Marketing Executive

Feb 2025 - Jan 2026

- Contributed to the promotion of two major events by managing social media campaigns, outreach activities, and publicity to boost participation and visibility.

RESEARCH EXPERIENCE

Neuromorphic Computing - Dysarthric Speech Enhancement(Ongoing)

- Building a CNN and (Spiking Neural Network) SNN-based pipeline to convert dysarthric speech into intelligible output
- Optimized input pipelines for neuromorphic speech systems by comparing Mel-spectrogram and raw .wav preprocessing, aiming to enable real-time, low-power assistive deployment for dysarthric speakers.

PROJECTS

Sproutly - Privacy-First Child Development App | Swift 6, SwiftUI, SwiftData

GitHub

(Swift Student Challenge Submission)

- Independently architected a full-featured iOS app using clean MVVM structure across 20 files, tracking child development across 5 clinical domains with zero backend dependency.
- Built an offline rule-based support assistant using weighted keyword scoring and a 4-tier concern-classification system, paired with a dual-theme UI and AAP-aligned screening reminders.

Konkan Craft | UI/UX Design

Figma Link

- Conducted user research through mentors and competitor analysis, translating insights into 5+ user flows and 4 high-fidelity Figma screens refined across 3 design iterations.
- Built for Pixel Paranoia Hackathon; solution validated by the sponsoring company's Brand Operations Executive as meeting the problem statement requirements.

Musilio | React, Node.js, Express.js, MongoDB

GitHub

- Built a full MERN music player with Express/MongoDB REST APIs for song uploads (Multer), playlist CRUD, and search.
- Modeled songs and playlists with Mongoose, supporting many-to-many song-playlist relationships and real-time playlist editing.

CERTIFICATIONS & COURSEWORK

Machine Learning Specialization - Supervised Machine Learning: Regression and Classification

Stanford & DeepLearning.AI

- Studied supervised learning algorithms including linear and logistic regression, gradient descent, and regularization.
- Analyzed bias-variance tradeoff and model performance; implemented models in Python using Scikit-Learn.

AWARDS & ACHIEVEMENTS

Pixel Paranoia Hackathon | Top 10 Finalist

2025

- Selected as a finalist (Top 10 out of 200 teams) demonstrating rapid problem-solving and technical innovation.

Trinity's IDPT Band Wars | 1st Prize

2025

- Won 1st Prize showcasing creativity, musical talent, and teamwork in a competitive environment.