

# Jeet Shah

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## SUMMARY

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Product-minded Full-Stack Engineer and AI Researcher with a dual focus on building scalable systems and advancing spatiotemporal modeling. Currently applying engineering discipline as a co-founder of a technical solutions firm. Proven track record of deploying reliable software in high-stakes environments and architecting cloud-native solutions for early-stage ventures.

## EDUCATION

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2021 - 2025 BSc. (Hons.) in Computer Science, **FLAME University** **US GPA: 3.77/4.0**  
Postgraduate Diploma in Interdisciplinary Studies **US GPA: 3.61/4.0**

## SKILLS

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**Languages** Python, JavaScript, TypeScript, C++, C, SQL, Haskell  
**Frameworks** React Native, Next.js, NestJS, FastAPI, Supabase, Tailwind  
**AI/ML** PyTorch, TensorFlow, Computer Vision, ConvLSTM, RAG Architectures  
**Infrastructure** Docker, Linux (HPC/Air-gapped), Azure, GCP, PostgreSQL, Git

## WORK EXPERIENCE

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**Co-founder & Lead Engineer, TriCatch** *December 2025 - Present*

- Co-founded a technical solutions firm to build scalable digital products; bridging the gap between business requirements and technical architecture for early-stage ventures.
- Currently architecting a mobile fitness application for [Movynn](#) using **React Native** and **Supabase**.
- Leading full-cycle development while managing pre-release confidentiality; responsible for core infrastructure decisions and secure user data handling.
- Engineered an offline-first synchronization engine to ensure application functionality in low-connectivity environments.

**Software Developer, Voltek AI** *October 2024 - Present*

- Architected a knowledge ingestion pipeline for [NANOLOY](#) (Battery Research), consolidating terabytes of experimental data from SharePoint and Azure Blob Storage into PostgreSQL.
- Reduced query latency by 67% by optimizing database indexing and implementing a FastAPI middleware layer.
- Developed a Multi-LLM RAG system to allow researchers to query technical documentation using natural language, improving information retrieval efficiency.

**Research Intern (SRTD), Space Applications Centre, ISRO** *May 2023 - August 2023*

- Developed a ConvLSTM deep learning model for precipitation nowcasting using INSAT-3D satellite data, outperforming optical flow baselines by 30.7%.
- Operated in a high-security air-gapped environment; manually configured Linux environments and dependency trees for High-Performance Computing (HPC) clusters without internet access.
- Processed large-scale spatiotemporal datasets to train models for 6-hour rainfall prediction.

**Student Research Assistant, CAI, FLAME University** *March 2023 - March 2025*

- Managed the university's AI server infrastructure, implementing IAM policies for secure multi-user ML training workflows.
- Collaborated with ISRO to extend precipitation nowcasting research, leading to a thesis under review by Springer.

## Project Solutions Intern, [National Federation of the Blind](#)

May 2024 - September 2024

- Developed assistive navigation tools using Raspberry Pi and Computer Vision to aid visually impaired users.
- Conducted technical tutoring sessions at the **Jagriti School for Blind Girls** to improve digital literacy.
- Conducted field testing and user feedback sessions to refine hardware interaction designs.

## AWARDS & HONORS

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- Global Rank 1** **NeurIPS Weather4Cast Competition 2024** – Developed winning model for rainfall prediction.
- Global Rank 2** **NeurIPS Weather4Cast Competition 2025** – Optimized architectures for sparse weather data.
- Scholarships** **60% Merit Scholarship** (2024-25) & **25% Merit Scholarship** (2021-24) for academic excellence.
- Finalist** **Bit N Build 2024** – Google Developer Student Clubs Hackathon.

## PROJECTS

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### Jyeshthanubandh

[Play Store Link](#)

End-to-end safety application deployed with the **Pimpri-Chinchwad Police** for senior citizens. Features real-time GPS tracking, automated medical context retrieval, and a dedicated Command & Control dashboard for police operators.

### PaudhaYodha

[GitHub Repo](#)

Plant disease detection application built for the **Google Bit N Build Hackathon** (Finalist). Fine-tuned a ResNet-50 model on leaf imagery to identify crop diseases with 92% accuracy.

## LEADERSHIP & ACTIVITIES

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### President, [DotSlash FLAME](#)

2023 - 2024

Led a team of student developers to build internal tools for the university IT department. Organized technical workshops and hackathons for 200+ students.

### Technical Outreach, [Project Impact](#)

2024 - 2025

Spearheaded digital literacy programs at **Z.P. School, Lavale**. Established a computer lab and developed curriculum for first-time computer users in a public school setting.

### Technology Head, [TEDxFLAMEUniversity](#)

2024 - 2025

Managed technical logistics for the conference; oversaw audiovisual delivery and website management for the university's licensed TEDx event.

### Executive Committee Member, [Student Clubs](#)

2022 - 2025

Served as Treasurer for the **FLAME Music Club**, **E-Sports Club**, and **The Reading Initiative**. Managed annual budgets and organized campus-wide cultural events for 1000+ students.

## PUBLICATIONS

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Deshpande, Atharva et al. (2024). *A conditional Generative Adversarial network model for the Weather4Cast 2024 Challenge*. arXiv: [2412.00451 \[cs.CV\]](#). URL: <https://arxiv.org/abs/2412.00451>.

Bhuskute, Anushree et al. (2025). *Computationally-efficient deep learning models for nowcasting of precipitation: A solution for the Weather4cast 2025 challenge*. arXiv: [2511.11197 \[cs.CV\]](#). URL: <https://arxiv.org/abs/2511.11197>.