

Shivansh Tripathi

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Education

Vellore Institute of Technology, Chennai, Tamil Nadu

July 2026

B.Tech in Electrical and Electronics Engineering

City Montessori School, Lucknow, Uttar Pradesh

2021 Graduate

Alumnus

Projects

 **Photogen** | *Fal-AI, Cloudflare, Next.js, React, PostgreSQL, Clerk, Turborepo* Feb 2025 – Present

- Developed an AI-powered photo generation/training web app, allowing users to train their faces on photos and generate candid portraits.
- Utilized Fal-AI models to train and generate candid user images.
- Applied the **Strategy pattern** to dynamically switch between AI models based on cost-efficiency, ensuring optimal performance.
- Followed **OOP principles** by structuring AI model interactions as reusable classes for modularity.
- **Designed and managed a relational database (PostgreSQL)** to store user training data, ensuring consistency and scalability.
- Integrated Clerk for user authentication and Cloudflare for secure, distributed data access.

Otto | *Electron.js, Node.js, Windows API, AI Integration, Git*

Nov 2024 – Present

- Developing an **AI-powered Windows desktop assistant** that manages wallpapers, schedules, and automates tasks.
- **Applied OOP by encapsulating system monitoring logic** into modular components for CPU, memory, and process tracking.
- **Integrated the Windows API for deep system-level control**, including error detection and IDE activity tracking.
- Designed a lightweight, always-on application with startup launch capabilities for uninterrupted performance.

 **AutoGear** | *Next.js, React, Reactflow, PostgreSQL, Google APIs, Clerk*

Jan 2024 – Feb 2025

- Developed a **full-stack web application** to streamline workflow automation.
- Implemented automation by **integrating Slack, Notion, Discord, and Google Drive APIs**.
- Visualized user connections through **Reactflow**, providing a seamless user experience.
- **Designed a scalable PostgreSQL database** to store automation rules and user configurations.

Technical Skills

Languages: C/C++, Java, Python, SQL (PostgreSQL), JavaScript, TypeScript, HTML/CSS, MATLAB

Frameworks: React, Node.js, Next.js, Shadcn, Turborepo, FastAI, Google API, FastAPI, REST APIs, Bun

Developer Tools: Git, Clerk, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Jupyter, Docker

Libraries: pandas, NumPy, Matplotlib, JSZip, FastAI

Certifications

- Machine Learning specialization by Deeplearning.ai – *Expected 2025*
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Relevant Coursework

- AWS Cloud Computing
- Advanced Competitive Coding