

Atharv R Gachchi

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Objective

A curious and driven Computer Science and Engineering student with a strong interest in software development and emerging technologies. Passionate about building practical solutions to real-world problems through hands-on experience in Python, React, Flutter, and AI/ML. Known for a proactive learning approach, creativity, and a commitment to writing clean, effective code. Seeking opportunities to contribute to innovative, growth-oriented tech environments.

Education

Manipal University Jaipur

Bachelor of Technology in Computer Science and Engineering (IoT and Intelligent Systems)

Aug 2023 – Aug 2027
(Expected)

Jindal Vidya Mandir

K-12 Education (CBSE Board)

Mar 2011 – Apr 2023

Technologies & Skills

Languages: Python | C/C++ | Assembly | JavaScript | Dart | SQL | HTML | CSS | Move

Frameworks & Libraries: **Web/App:** React, Next.js, Vite, Flutter · **Desktop:** Electron.js · **AI/ML:** TensorFlow, Pytorch, Scikit-learn, Pandas, Joblib

Databases: MongoDB | PostgreSQL | MySQL | SQLite

Tools & Platforms: Git | Aptos Blockchain | Sui Blockchain | Google Gemini API | Tree-sitter | QuickJS (WASM)

Interests: Artificial Intelligence/Machine Learning | Blockchain Technology | Compiler Design

Professional Experience

CampusAdda Technologies Pvt Ltd — App Developer: Developed and integrated the Car Pooling feature for the CampusAdda app (Flutter/Dart), focusing on responsive UI and logical flow; delivered features for integration of Google Maps

Oct 2024 - April 2025

Projects

Lemma (Developer Tooling / Compiler)

[GitHub Repository](#) 🔗 · [Live Site](#) 🔗

Tech: QuickJS (WASM), Tree-sitter, React, Next.js

- **Invented** “Lemma,” a zero-installation, in-browser time-travel debugger supporting five languages (JS, Python, Go, Rust, C++) that allows users to scrub program execution and inspect real-time variable states like a movie.
- **Engineered** a **WASM-powered core** (QuickJS VM and Tree-sitter) for fast, client-side execution and analysis, enabling a privacy-first sharing mechanism via a single, self-contained URL fragment.

Fractal (Web Tooling / Advanced Frontend)

[GitHub Repository](#) 🔗 · [Live Site](#) 🔗

Tech: React, Tree-sitter, WASM, Brotli

- **Architected** “Fractal,” an innovative, nearly zero-backend platform that compresses and stores entire multi-language code workspaces (files, folders) into a single, self-contained URL fragment.
- **Developed** a full serialization pipeline featuring Brotli/Gzip compression and Base64url encoding, ensuring client-side project rehydration for frictionless code sharing without server fetches.

Arth Shikshak (AI Platform / FinTech)

[Main Repo](#) · [MVP Demo](#)

Tech: Gemini API, NextAuth.js, MongoDB, React

- **Constructed** a student-focused financial advisory platform (submitted for the Google Solution Challenge 2025) that leverages the **Gemini API** to deliver personalized, AI-powered financial advice and budgeting support.
- **Integrated** a full-featured application incorporating secure authentication via NextAuth.js, robust goal tracking, financial calculators, and dynamic dashboard analytics to visualize student financial progress.

Fuel-Forge (Machine Learning)

[GitHub Repository](#)

Tech: Python, Tensorflow, Joblib, React

- **Conceived and built** “Fuel-Forge,” an **AI-powered optimization platform** using **TensorFlow/Keras** to predict and streamline blend compositions for both gasoline and diesel fuels.
- **Designed** a complete deep learning system, including a synthetic data generation engine and **GPU-accelerated models**, coupled with an interactive **React-based web interface** featuring real-time prediction and 3D visualizations.

Rainfall Prediction (Machine Learning)

[GitHub Repository](#)

Tech: Python, Scikit-learn, Pandas

- **Modeled** a binary classification predictor for daily rainfall probability using a meteorological dataset (temperature, humidity, wind speed, etc.).
- **Applied** advanced data preprocessing and regression techniques (e.g., Logistic Regression) to optimize forecast accuracy and ensure model reliability.

Batch Attendance Manager (Flutter App)

[GitHub Repository](#)

Tech: Flutter, Dart

- **Created** a highly functional, Flutter-based **Batch Attendance Manager App** (beta) that centralizes core features like student/batch administration, real-time attendance tracking, and fee logging for educators.
- **Implemented** crucial product features such as full data portability (export/import for backup/migration) and a one-tap utility for manually sending due fee reminders via WhatsApp/SMS.

Document Management dApp (Web3 dApp)

[GitHub Repository](#)

Tech: Aptos, Move, React, Vite

- **Launched** a decentralized application (dApp) on the **Aptos blockchain**, utilizing **IPFS** for secure, transparent, and trusted document creation, storage, and management.
- **Established** core functionality for multi-signature and approval workflows, thereby ensuring document integrity and auditability within the system.

Revera (Web3 dApp)

[GitHub Repository](#)

Tech: Sui TypeScript SDK, React

- **Prototyped** “Revera,” a decentralized prediction market platform on the **Sui blockchain**, designed to enable transparent, secure, and fair market creation and participation without intermediaries.
- **Outfitted** the application with a responsive UI, real-time portfolio management, and core functions for market creation, trading, and dedicated admin tools for system monitoring.

Courses

Developing Front-End Apps with React

[Certification](#)

IBM - Coursera

Frontend Development using Angular

[Certification](#)

Board Infinity - Coursera

Mathematics for Machine Learning: Linear Algebra

[Certification](#)

Imperial College London - Coursera

Programming with Generative AI

[Certification](#)

IIT Guwahati - Coursera

Extra-Curricular

Deputy Operations Manager — Turing Sapiens (Tech Club):

- Led the operational planning for **Turing Sapiens**'s flagship events, including "Trailblazer: The Ultimate Web Dev Challenge."
- Served on the Core Committee (Operations) for Alphasia '25, contributing directly to the successful execution and logistics of the major club fest.

Operations Team Member & Student Coordinator — IIC Hackathon 2025: Contributed to the successful execution of IIC Hackathon 2025 by assisting with critical logistical and organizational tasks for a smooth participant experience.