

Shreyas Satpute

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EDUCATION

University of Birmingham

MSc, Computer Science - (Distinction Awarded)

Sept 2024 - Sept 2025

Birmingham, United Kingdom

Visvesvaraya Technological University

Bachelor of Engineering, Electronics and Communication - (GPA: 8.06)

Aug 2018 - July 2022

Bangalore, India

SKILLS

Programming Languages: C#, Python, JavaScript, TypeScript, SQL, C++

Frameworks & Technologies: .NET, React.js, Next.js, Flask, FastAPI, Node.js, Entity Framework, Tailwind CSS, SignalR

AI/ML: Machine Learning, NLP, sentence-transformers, Google Gemini API

Databases: PostgreSQL, SQLite, SQL Server

Cloud & DevOps: Microsoft Azure, Git, Docker, Apache Kafka

WORK EXPERIENCE

LTIMindtree

Software Engineer - I

Sept 2022 – Sept 2024

Bangalore, India

- Collaborated with Microsoft, within the internal query processing team, utilizing .NET to migrate and convert 500+ legacy test cases from SQL to C#. Analyzed existing test cases to ensure 100% accuracy in translation, preserving functionality and improving overall testing efficiency.
- Contributed to the initial development of an automated .NET feature designed to streamline the migration process, aiming to eliminate manual conversion and reduce errors for an anticipated speed increase of up to 50%.

LTIMindtree

Software Engineer Intern

Mar 2022 – May 2022

Bangalore, India

- Contributed to internal .NET web applications, implementing features using ASP.NET MVC and Entity Framework during a 3-month program.

PROJECTS

Sentinel-G3 - Autonomous Self-Healing Security Auditor

GitHub : [Link](#)

- Developed an AI-powered security auditing and self-healing system for the Google Gemini 3 Hackathon, utilizing Google Gemini 3, FastAPI, Next.js, and Python. Built specialized AI agents to identify and autonomously fix vulnerabilities, with real-time chain-of-thought streaming, GitHub PR generation for fixes, and cryptographic thought signatures for a verifiable audit trail.

PromptGuide - Intelligent Prompt Evaluation Tool

GitHub : [Link](#)

- Spearheaded the full-stack development of a prompt evaluation Chrome extension for MSc dissertation. Implemented a RESTful backend using Python (Flask), NLTK, and sentence-transformers for NLP tasks, integrating Groq API for AI-driven refinement and a JavaScript frontend leveraging Chrome APIs for seamless browser integration.

StudySync - Smart Study Partner Matcher

GitHub : [Link](#)

- Awarded Public Choice Award at Birminghack 1.0. Architected a full-stack web application using Python (Flask) for the backend and React.js for a dynamic frontend, solving a common challenge within the student community. Engineered a matching algorithm using cosine similarity on numerically encoded user preferences to generate and rank compatible matches.

FraudDetectionSystem – Real-Time Financial Fraud Detection

GitHub : [Link](#)

- Architected a distributed fraud detection system using .NET 9, Apache Kafka, FastAPI, and React. Ingested transaction streams via Kafka, scored risk through a Python ML engine, and pushed live alerts to a React dashboard via SignalR, with fault tolerance using Circuit Breaker patterns (Polly).

EXTRACURRICULAR ACTIVITIES

- Student Representative, MSc Computer Science** - Represented the student cohort in staff meetings, contributing to academic improvements through feedback and new initiatives.
- BEAR Challenge** - Achieved 4th place in the university's High Performance Computing (HPC) challenge, developing solutions for AI-art generation, image classification, and large-scale data sorting.