

# Utpal Raj

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[utpalr.vercel.app](https://utpalr.vercel.app)

## Education

*B.Tech in Computer Science (Data Science)*

2023–2027

SRM Institute of Science and Technology, Kattankulathur

*CGPA:* 9.53

*Intermediate (Class 12)*

2020–2022

St. Thomas Senior Secondary School (CBSE)

*Percentage:* 88.8%

## Achievements

- 1st Place – Web3/Crypto Track, OSSome Hacks 2.0 (GitHub Community SRM)
- 3rd Place – AI Project Expo, SRM Institute of Science and Technology
- Solved 300+ DSA problems and achieved a contest rating of 1600+ on Leetcode.

## Work Experience

### Frontend Developer Intern – Optivix AI

Aug 2025 – Oct 2025

[optivixai.com](http://optivixai.com)

- Built and maintained the startup's production website using React and Tailwind CSS.
- Implemented responsive layouts and optimized page performance and SEO.
- Developed basic analytics dashboards to track user interactions and traffic metrics.

### Freelance Web Developer

2025 – Present

- Delivered multiple client-facing single-page and multi-section websites using React, JavaScript, and Tailwind CSS.
- Translated business requirements into functional UI components and interactive features.
- Managed end-to-end delivery including requirement clarification, iteration, and deployment.
- Worked with real clients to deliver production-ready websites under timelines and changing requirements.

## Technical Skills

**Languages:** C++, Python, Java

**Core CS:** Data Structures and Algorithms, Object-Oriented Programming, RESTful API Design, Basic Operating Systems Concepts

**Backend & Web:** Spring Boot, Node.js, Express, WebSockets (basic), React, JavaScript, Tailwind CSS

**Libraries & Tools:** Git, GitHub, OpenCV, NLTK

# Projects

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- **Docify – GitHub Repository Explainer & README Generator (Ongoing)** GitHub  
*Python, NLP, LLM APIs*
  - Building a Python-based tool to analyze GitHub repositories and automatically generate structured explanations and README documentation.
  - Implementing repository parsing and preprocessing pipelines for file hierarchy analysis, code chunking, and metadata extraction.
  - Integrating LLM-driven workflows to infer project purpose and architecture from source code.
- **The Architect – AI-Powered Code Analysis Studio** Demo | GitHub  
*JavaScript, HTML, CSS, API* Dec 2025
  - Built an AI-based web application for deep static code analysis across execution flow, failure modes, performance, and learning-oriented explanations.
  - Designed a configurable prompt-engine with multiple depth levels, producing outputs from concise summaries to exhaustive technical breakdowns.
  - Implemented modular analysis layers including design intent, trust boundaries, mental models, simulations, and knowledge checks.
- **Performist – Real-Time Web Performance Monitoring System** GitHub  
*React, Node.js, Express, WebSockets, JavaScript* Jan 2025
  - Designed an end-to-end system to collect and visualize real-time web performance metrics such as API latency, error rates, and throughput.
  - Built a client-side JavaScript SDK to capture browser performance data and send it to the backend.
  - Designed a Node.js + Express backend to ingest metrics and stream live updates using WebSockets.
  - Developed a React-based dashboard to display real-time analytics and system health indicators.
- **Text Comparison Tool** GitHub  
*Python, NLTK, Tkinter* Mar 2024
  - Built a desktop application to compare documents and identify textual similarities and differences.
  - Implemented tokenization and similarity scoring using NLP techniques and Python's difflib.
  - Designed a simple GUI to visualize differences for academic and document analysis use cases.

# Certifications

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- Programming in Java – NPTEL
- Python 101 for Data Science – IBM
- Image Processing, MATLAB Onramp – MathWorks
- Deep Learning & Machine Learning – MathWorks
- Certificate of Achievement – HackWithIndia