

# URZA RAI

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## Education

### Vellore Institute of Technology, Vellore

*Bachelor of Technology in Computer Science with Specialization in Internet of Things; CGPA:9.06*

Sep 2022 – Present

*Vellore, Tamil Nadu*

### SNBP Rahatani, Pune

*HSC, Final Percentage: 93.2%*

Apr 2020 – Jul 2022

*Pune, Maharashtra*

### SNBP Rahatani, Pune

*SSC, Final Percentage: 95.8%*

Jul 2018 – Mar 2020

*Pune, Maharashtra*

## Technical Skills

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

**Frontend Technologies:** HTML, CSS, Javascript, ReactJS, Tailwind CSS

**Backend Technologies:** Express.js, Node.js, MongoDB

**Data Visualization:** Tableau, Power BI

## Projects

### Quick Sign [Live Demo](#) — [GitHub Repo](#) (HTML, CSS, JavaScript)

- Built a responsive web application for creating and managing digital signatures.
- Implemented features to save, retrieve, and choose text color, background color, and font size for signatures.

### Currency Converter [Live Demo](#) — [GitHub Repo](#) (React, HTML, CSS, JavaScript, API)

- Developed a web-based currency converter to convert between different currencies in real-time.
- Integrated a public API for fetching real-time exchange rates and ensured a responsive UI.

### GitHub Profile Viewer [Live Demo](#) — [GitHub Repo](#) (HTML, CSS, JavaScript, API)

- Created a tool to search and display GitHub profiles with details such as repositories and bio using GitHub API.
- Ensured smooth performance and error handling for invalid inputs.

## Experience

### Mercedes Benz, BU Bhandari

*Customer Relations Intern*

May 2024 – June 2024

*Pune, Maharashtra*

- Improved data storage and retrieval systems on the MBIL Zoho Solutions server, reducing data retrieval time by 20%.
- Performed data analysis and developed detailed customer profiles using Excel, increasing customer service efficiency by 30%.
- Optimized the customer database for 1,000+ clients, achieving 98% data accuracy and maintaining current information.

## Certification

### Introduction to MongoDB (Certificate)

01 November 2024

## Research Experience

### Research Report ([Link to Paper](#))

March 2025

*Under the guidance of Prof. Dr. Kausser Ahmed*

*Vellore Institute of Technology, Vellore*

- Researched and designed an innovative IoT-based soil monitoring and irrigation control system leveraging edge computing to reduce water usage by 20-30% for small-scale farmers, validated through TinkerCad simulations and agricultural datasets.

### Survey Paper ([Link to Paper](#))

January 2025

*Under the guidance of Prof. Dr. Srivani A*

*Vellore Institute of Technology, Vellore*

- Wrote a survey paper on AWS Athena and AWS Elastic Beanstalk, analyzing their performance, scalability, and integration capabilities in cloud-based applications.

## Extracurriculars

### Executive Operations Head ([Membership Certificate](#))

April 2024

*Sophomore Year*

*Vellore Institute of Technology, Vellore*

- Elected as Operations Head and HR for ISTE-VIT, where I demonstrated strong leadership and organizational skills by managing a team of over 150 members and successfully executing over 15 events, workshops and hackathons.