

# Vishok Manikantan

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## EDUCATION

### SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering

Chennai, TN

Jul. 2023 – Jul. 2027

### Kendriya Vidyalaya No. 2 Tambaram

Secondary and Higher Secondary

Chennai, TN

May 2011 – May 2023

## CERTIFICATIONS

### Programming in Java

National Programme on Technology-Enhanced Learning

Feb. 2024 – Aug. 2024

IIT KGP, WB

- Proficient in Java programming, including object-oriented concepts, Java programming elements, and software development
- Gained expertise in Java programming through hands-on experience with assignments, quizzes, and exams
- Achieved a 47% consolidated score in the course, demonstrating a strong understanding of the subject matter

## HONORS & AWARDS

### Envision - Case Study

Oct. 2023

Bureau of Indian Standards

- Developed a Node.js-based price comparison engine, Pricenet, to efficiently search and compare prices across multiple online platforms
- Implemented a caching mechanism to optimize performance and reduce server load, ensuring rapid response times
- Utilized Cheerio for data scraping and analysis, enabling the extraction of relevant product information
- Successfully deployed Pricenet, winning the BIS Hackathon due to its simplicity, scalability, and efficient algorithms

### Java Expo 2024

Nov. 2024

Department of Computing Technologies, SRMIST

- Developed a lightweight and efficient scripting language, Minter, designed to streamline automation tasks
- Incorporated database connectivity features to facilitate data-driven automation.
- Enhanced Minter's capabilities with a user-friendly syntax and a focus on simplicity, making it accessible to users of all levels
- Users have leveraged Minter to automate tasks such as PDF compilation, data processing, and system administration.

## PROJECTS

### FASTRE | Node.js, HTTP, Cheerio, NPM

July 2024 – Present

- FASTRE | GitHub | NPM
- Developed a novel runtime engine, Fastre, designed to optimize server-side rendering and dynamic content delivery
- Implemented a streamlined HTML-like templating system, incorporating advanced features like conditional logic, loops, and function calls
- Integrated a robust request handling mechanism, enabling seamless communication with external APIs
- Enhanced Fastre's capabilities with cookie management, data variable manipulation, and other essential functionalities

### Autobase | Go, Gin, CSV

Aug. 2024 – Present

- Autobase | GitHub
- Developed a lightweight, high-performance data engine for seamless data integration and API middleware
- Implemented a flexible data storage system using CSV files, allowing for rapid data access and manipulation
- Created a powerful query language to filter, sort, and transform data efficiently
- Integrated robust security features, including role-based access control and token-based authentication

<b>Minter</b>   Java, JDBC, Swing, AWT	Oct. 2024 – Present
<ul style="list-style-type: none"> <li>Minter   GitHub</li> <li>Developed Minter (Minimal Interpreter), a scripting language designed to simplify and streamline automation tasks.</li> <li>Implemented a high-performance interpreter, enabling efficient script execution.</li> <li>Designed Minter with a user-friendly syntax and focus on simplicity, making it accessible for users of all experience levels.</li> <li>Incorporated database connectivity features to facilitate data-driven automation scenarios.</li> </ul>	
<b>FADE</b>   C#, .NET	[Start Date] – Present
<ul style="list-style-type: none"> <li>FADE   GitHub</li> <li>Developed a comprehensive development environment, FADE, to streamline the development process for Fastre, Autobase, and Minter.</li> <li>Implemented a robust package manager to facilitate the installation and management of dependencies.</li> <li>Integrated a user-friendly interface for seamless interaction with FADE's tools and features.</li> <li>Optimized FADE's performance and stability to ensure a smooth developer experience.</li> </ul>	
<b>Urbanscale</b>   Python, Flask	Sep. 2024 – Oct. 2024
<ul style="list-style-type: none"> <li>GitHub</li> <li>Developed a web application, Urbanscale, to evaluate urban environments based on various factors such as residential, business, entertainment, and vacation.</li> <li>Implemented a data aggregation pipeline to collect and process data from multiple APIs and sources.</li> <li>Developed a scoring algorithm to assign weights to different factors and calculate an overall urban score.</li> <li>Designed a user-friendly interface to visualize the scores and insights generated by Urbanscale.</li> <li>Participated in the Smart India Hackathon, showcasing Urbanscale's potential to improve urban planning and decision-making.</li> </ul>	
<b>Shoot&amp;Scoot</b>   C#, .NET, Java	Sep. 2024 – Present
<ul style="list-style-type: none"> <li>Shoot&amp;Scoot — GitHub</li> <li>Developed a fast and efficient screenshot tool, Shoot&amp;Scoot, to capture and compile images into PDFs.</li> <li>Implemented a user-friendly interface with customizable hotkeys for seamless screenshot capture.</li> <li>Created a background service to capture screenshots discreetly and efficiently.</li> <li>Developed an Android app to receive and store screenshots captured on the desktop.</li> <li>Optimized the application for performance and resource usage, ensuring smooth operation.</li> </ul>	
<b>Pricenet</b>   Node.js, Fastify, MongoDB, Fastre	July 2023 – Nov. 2023
<ul style="list-style-type: none"> <li>GitHub</li> <li>Developed a robust price comparison engine, Pricenet, to help users find the best deals online.</li> <li>Implemented efficient web scraping techniques to extract product information from multiple e-commerce websites.</li> <li>Designed a user-friendly interface to display product comparisons and recommendations.</li> <li>Optimized Pricenet's performance through caching and asynchronous processing.</li> <li>Deployed Pricenet to a production environment, making it accessible to a wide range of users.</li> </ul>	
<b>SimplePolls</b>   PHP, MySQL, Bootstrap	June 2023 – July 2023
<ul style="list-style-type: none"> <li>SimplePolls — GitHub</li> <li>Developed a web application, SimplePolls, to enable users to create, share, and analyze polls and surveys easily.</li> <li>Implemented a user-friendly interface with intuitive features for poll creation and customization.</li> <li>Designed a robust backend system to store and process poll data efficiently.</li> <li>Integrated secure authentication and authorization mechanisms to protect user data and privacy.</li> <li>Deployed SimplePolls to a production environment, making it accessible to a wide range of users.</li> </ul>	

## TECHNICAL SKILLS

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**Languages:** PHP, Node.js, Python, C, C#, Go, Java, Dart, HTML, CSS, JavaScript

**Frameworks:** .NET, Gin, Express, Flask, Fastify, Laravel, Flutter, Swing, Bootstrap

**Developer Tools:** Git, Azure Cloud, VS Code, Visual Studio

**Database:** MySQL, PostgreSQL, MongoDB, SQLite