

# Vetriselvan R

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## PROFESSIONAL SUMMARY

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Computer Science and AI student focused on full-stack development, backend engineering, and computer networking. Strong problem-solving skills with hands-on experience in building clean, efficient, and scalable applications across modern web and backend systems.

## EDUCATION

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**B.Tech Computer Science and Artificial Intelligence** August 2024 – Present | Delhi NCR  
Newton School of Technology, Rishihood University | CGPA: 8.1 (Semester 2)

**Intermediate | Amrita Vidyalayam School (CBSE)** April 2023 – April 2024 | Chennai, Tamil Nadu

**Matriculation | Pinkz Public School (CBSE)** April 2021 – April 2022 | Polur, Tamil Nadu

## EXPERIENCE

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**Front-End Dev Intern - Websjyoti** May 2025 – July 2025 | Remote  
Contributed as **Front-End Developer** and **Project Lead**, owning **front-end development** and coordinating team efforts to deliver a structured and reliable application **within project timelines and requirements**, while ensuring effective communication across **stakeholders** and execution quality.

## PROJECTS

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**FinNuvora - AI Personal Finance Tracker**  November 2025 – Present

**Tech Stack :** Next.js, React, Express, MongoDB, Gemini AI, Plaid, TailwindCSS, JWT

- **Designed and engineered a resilient FinNuvora ecosystem** running Next.js and Node.js microservices alongside a **MongoDB cluster**, managing state at the application layer using **Custom Hooks** to decouple logic and UI within a modern component architecture to **improve scalability**.
- **Automated data ingestion** from unstructured financial documents by implementing **Gemini AI, processing PDF statements in real-time mode**, and transforming raw **text** to **structured JSON** backed storage for precise validation through a conversational agent environment in the dashboard.
- **Enabled seamless bank synchronization and intelligent asset tracking** by **integrating Plaid directly on the controller**, while deploying frontend services and interactive charts on **isolated protected routes** to support lightweight interaction and iterative feature deployment.

**Proxmox Homelab & Infrastructure Lab**  September 2025 – Present

**Tech Stack :** Proxmox VE, Linux, LXC, Docker, LVM Thin Pools, Samba, Twingate

- **Designed and operated a personal Proxmox VE homelab** running **Linux and Windows virtual machines** alongside LXC containers, **managing networking at the hypervisor** using LVM thin provisioning to separate volumes and project within a constrained SSD environment.
- **Recovered data from a failing HDD** inside a live Proxmox host by performing **SMART diagnostics**, mounting **NTFS partitions in read-only mode**, and **transferring critical files to SSD** backed storage for **safe validation through a Windows virtual machine** environment in the shell.
- **Enabled secure remote access** and flexible testing workflows by integrating **Twingate directly** on the **Proxmox host**, while **deploying containerized frontend, backend, and database** on isolated virtual networks to support lightweight development and iterative experimentation.

## SKILLS

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**Languages:** Python, JavaScript, Typescript, Tailwind CSS, SQL, No-SQL


**Frameworks, Libraries & Databases:** React, Express.js, Node.js, Next.js, Vite, Tailwind CSS, Prisma ORM, Pandas, MySQL, MongoDB, Numpy, Matplotlib, Scikit-learn, Seaborn, TensorFlow


**Key Concepts & Technologies:** RESTful APIs, Access Control, Authentication & Authorization, Web Security, Networking, Virtualization, | Containerization, Network Monitoring, API Testing,


## CERTIFICATIONS

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**Machine Learning by Columbia+:**  Developed intuition in supervised and unsupervised learning. Built a solid foundation in **linear algebra, multivariable calculus**, and probability for model optimization, and explored DL architectures such as **Neural networks**, and **Transformers**.

**Prompt Engineering & Programming with OpenAI by Columbia+:**  Developed intuition in designing **effective prompts** and understanding LLM behavior for **controlled text generation**. Built and integrated AI-powered applications using **LangChain**, and **Python**.

**Generative AI for Data Science Microsoft:**  Covers the **application of Generative AI techniques** in data science, **including feature engineering, large language models (LLMs)**, and **AI-driven solutions for advanced analytics** and intelligent systems.

**Developing Back-End Apps with Node.js and Express IBM:**  Had hands-on experience in **building server-side web applications using Node.js and Express**, including **RESTful API development, middleware integration, JSON-based data handling**, and **package management with npm**. Demonstrates proficiency in **asynchronous programming using callbacks** and **promises to develop scalable** and efficient back-end systems.

## EXTRA-CURRICULAR ACTIVITIES

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**NLP & ML Contributor | Easy Home Admin (Open Source)**

Contributing to the **NLP and machine learning** components of a **home automation platform**, working on **speech recognition integration** and **language-based device control** features through **collaborative open-source** development.

**Hacktoberfest Contributor (2025)**

Merged 6+ Pull Requests across **open-source projects**, **contributing code improvements**, bug fixes and earned the **Supercontributor Badge**.