


# J K Swaminathan

Recent B.Tech graduate in Electronics and Computer Engineering from VIT Chennai with strong hands-on experience in building full-stack applications using JavaScript, React, Node.js, and MongoDB. Proficient in developing and testing scalable microservices, integrating secure REST APIs, and deploying applications on cloud platforms like Firebase and Render. Passionate about solving real-world challenges in cybersecurity and big data, with a strong foundation in distributed systems, DevOps tools, and CI/CD pipelines.

## Contact

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## Academic Details

### Bachelor of Technology (B.Tech.) Electronics and Computer Engineering

Vellore Institute of Technology, Chennai;  
CGPA: 8.29

Sri Vageesha Vidhyashram | Tiruchirappalli,  
Tamil Nadu

12th | 04/2021 | 87%

Suraj Bhan D.A.V Public School | Delhi, New  
Delhi

10th | 04/2019 | 89%

## Technical Skills

- **Programming Languages:** JavaScript, Python
- **Frontend:** React.js, HTML5, CSS3, JavaScript (ES6+), Material UI
- **Backend:** Node.js, Express.js, MongoDB
- **Security:** OAuth 2.0, JWT
- **APIs:** RESTful APIs
- **Tools:** Git, GitHub, Postman, VS Code
- **Others:** Firebase, TensorFlow (basic), Blueprints (Unreal Engine)

## Soft Skills

Analytical | Collaborative | Adaptable | Problem Solver | Effective Communicator | Creative Thinker | Time Management

## Personal Details

**Date of Birth:** 22<sup>nd</sup> March 2003

**Languages Known:** English, Hindi and Tamil

**Address:** Tiruchirappalli, Tamil Nadu

## Certificates

- C Language Training, IIT Bombay (Online)
- Python Language Training, IIT Bombay (Online)
- Cisco Packet Tracer Introduction.

## Profile Summary

- **Innovative Full Stack Developer:** Designed and deployed full-stack eCommerce and food ordering platforms, demonstrating expertise in end-to-end web application development.
- **Proficient Technologist:** Mastery in cutting-edge technologies, including HTML5, CSS3, JavaScript, Node.js, SQL, NoSQL, and Git, alongside robust experience with frameworks such as React, Express, and MongoDB.
- **Industry Immersive Internship:** Successfully contributed to DRDO's defense simulations project, gaining hands-on insights into high-impact software applications.
- **Dedicated Learner:** Passionate about continuous upskilling, staying abreast of emerging technologies to deliver innovative solutions.
- **Dynamic Collaborator:** Thrives in team-oriented environments, bringing strong problem-solving and interpersonal skills to achieve collective success.

## Academic Projects

### Military Asset Manager

(May 2025)

#### Tools: MERN Stack

- Developed a Role based Accessed Military Asset Management Platform using MERN.

### AI-Powered Waste Sorting Assistant

(Jan 2025-April 2025)

#### Tools: React, Node.js, Express, MongoDB, TensorFlow, CUDA.

- Smart waste classification using **AI & TensorFlow** for efficient recycling.

### FAKAZON: E-commerce Website

(January 2024 – April 2024)

#### Tools: HTML, CSS, React, Node, Firebase

- Built a secure e-commerce platform with an **intuitive UI & payment gateway**.

### QuickCrave: Food Ordering Website

(March 2024 – June 2024)

#### Tools: HTML, CSS, React, Node, MongoDB

- Dynamic food ordering system with **real-time order tracking & payment integration**.

### AI Task Manager

(Feb 2025-Mar 2025)

#### Tools: React (Vite), Node.js, Express.js, MongoDB, JWT Authentication, Render.

- AI-powered task management system with **Google Gemini API** for smart task suggestions.

### MemeVerse

(Jan 2024 – Feb 2025)

#### Tools: React, Node.js, Express, MongoDB, JWT, Cloudinary.

- Interactive meme-sharing platform with **Cloudinary uploads & infinite scrolling**.

## Internship

### Defense Research and Development Organization (DRDO) | Delhi, New Delhi

September 2023 – November 2023

- Collaborated on a project utilizing Unreal Engine to develop and enhance interactive simulations for defense applications
- Assisted in the design and implementation of 3D environments, ensuring high-quality visual and functional standards.
- Gained hands-on experience with Unreal Engine's Blueprints and scripting tools, contributing to successful project milestones.