

# Vinayak Gupta

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## EDUCATION

- Vellore Institute of Technology** Vellore, India  
*Bachelor of Technology - Computer Science Engineering; GPA: 8.83* Jul 2019 - May 2023

## SKILLS SUMMARY

- Languages:** C/C++, Python, JavaScript, Java, MATLAB
- Web Technologies:** React, NodeJS, NextJS, Flask, Django, FastAPI
- Tools:** Docker, AWS, GCP, MySQL, MongoDB, SQLite

## EXPERIENCE

- MathWorks India Pvt Ltd** Jul 2023 - Jul 2024  
*Software Engineer (Full-time)*
  - Enhanced Feature Modelling:** Enhanced Simulink's feature modeling applications, boosting efficiency by incorporating user-defined constraints. Improved UI/UX, leading to streamlined interactions and better usability.
  - Rearchitected Simulink Component UI Tests:** Designed a new testing architecture for Simulink components, integrated equation rendering via a Web Browser within Simulink Canvas, and increased code coverage from 60% to 85% while reducing sporadic failures.
- Software Development Intern (Full-time)* Jan 2023 - Jul 2023
  - Attribute Based Test Failure Analysis:** Developed a MATLAB-based application to analyze test result data across clusters, producing reports with failure rates based on attributes, significantly reducing investigation times for QEs.
- JoshTalks Pvt Ltd** Jan 2020 - Dec 2022  
*Software Development Intern (Part-time)*
  - Digital Beti:** Contributed to a **Django-based platform** for the Digital India initiative, empowering 250,000+ rural women with digital skills in partnership with Facebook and CSC Academy.
  - Going Online As Leaders (GOAL):** Developed a website using **Bootstrap CSS** for a collaborative initiative between Facebook and Ministry of Tribal Affairs, aimed at promoting digital literacy among Indian tribal youth, facilitating the mentorship of over 200 participants.
  - Josh Skills:** Crafted a mobile-first website using **Materialise CSS** enhancing the brand's **SEO** and establishing a strong online presence and helping to achieve over 5 million downloads for their app.

## PROJECTS

- DocSum:** Developed a **Django-based** document summarization app with user authentication, RESTful APIs, and SQLite. Integrated **OpenAI API** for generating summaries and titles from uploaded files or text input.
- Common Entry Test:** Developed an online test platform made using **ReactJS** and **NodeJS** to streamline and standardise recruitment process for clubs, teams and chapters at VIT. We **collaborated with 17 diverse clubs**, resulting in over **70,000 page views** and **3,000 students** within a span of 2 weeks.
- Futurepreneurs:** Created an immersive online experience using **ReactJS** and **NodeJS**, with real-time interactions through **socket.io**. This portal served as the primary interface for **over 15 teams** in a startup simulation event.

## VOLUNTEER EXPERIENCE

- Codechef VIT** Vellore, India  
*Technical Advisor* Jan 2020 - Jun 2022
  - Conducted online and offline technical events impacting over 3000 students
  - Mentored a team of junior developers on building projects and conducting events
- Entrepreneurship Cell VIT** Vellore, India  
*Director of Technology* Jan 2020 - Jun 2022
  - Streamlined the technical functioning of the club and conducted events and sessions for motivating entrepreneurial spirits within the students.
  - Mentored a team of junior developers on building projects and conducting events

## ACHIEVEMENTS

- DevSpace Hackathon by CSI-VIT - Mar 2021:** Secured the overall first prize for developing an E-learning solution using ReactJS and NodeJS. The platform featured a live shared code editor, audio/video calls, guided courses, and live online tests.