

# G Pavan Kumar

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## Summary

Being a 3rd-year Computer Science and Engineering student with a passion for full-stack development and AI. I've spent a lot of time working with ReactJS, NodeJS, GoLang, and SQL, building everything from websites to more complex systems. Along the way, I've freelanced as a frontend developer, creating everything from landing pages to e-commerce sites. I love learning new things, which is why I've jumped into open-source projects, collaborated with others, and participated in hackathons to test my skills. I'm always looking for ways to grow and take on new challenges, while also helping others along the way.

## EDUCATION

- Saveetha School of Engineering, SIMATS** **Chennai, India**  
*Bachelor of Engineering in Computer Science and Technology; GPA: (8.56/10)* **(October 2022 – 2026)**  
*Courses: Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

- Programming Languages** : Python, C++, Java, JavaScript, C, SQL
- Frameworks & Libraries** : Node.js, Django, Flask, TensorFlow, Keras
- Tools & Databases** : GIT, PostgreSQL, MySQL
- Platforms & Technologies** : Web, Windows, Arduino, Raspberry Pi, AWS, IBM Cloud
- Soft Skills** : Leadership, Public Speaking, Event Management, Writing, Time Management

## EXPERIENCE

- Frontend Developer – Freelance (Remote)** **(February 2023 – 2025)**
  - Developed 4+ responsive websites for startups and small businesses, improving engagement and retention. Built landing pages, e-commerce sites, and portfolios using ReactJS, HTML5, Tailwind, and Bootstrap.
  - Optimized load times by up to **40%** and improved SEO rankings, boosting client traffic by an average of **25%**.
  - Delivered pixel-perfect UI/UX with smooth API integrations, increasing client satisfaction and repeat projects.
  - Successfully managed communication with 10+ clients, maintaining a 100% on-time delivery rate.
- Winner – CodeSprint 3.0 Hackathon** **(March 2024)**
  - Led a 3-member team to build a smart task scheduler app using React, NodeJS, and GPT APIs.
  - Won "Best Innovation" out of 50+ teams for real-world usability, intuitive design, and AI integration.
  - Delivered a fully functional MVP in under 24 hours, with 95%+ accuracy in task predictions during live demos.
  - Integrated GPT-based suggestions and calendar sync to auto-generate smart reminders.

## PROJECTS

- Image Captioning Project:** Developing an advanced AI-driven image captioning system leveraging GPT-based models, surpassing traditional methods like ResNet-LSTM in generating more detailed, contextually relevant, and readable captions. **Tech:** Python, TensorFlow, GPT-based models, ResNet-LSTM. (2025)
- Laptop Sales and Service Project:** Developed an open-source platform for seamless laptop sales, service requests, and inventory management, enhancing customer experience and support efficiency. **Tech:** HTML3, CSS, React, JS, NodeJS, SQL, MongoDB. (2024)
- Vehicle License Plate Detection System:** Built an automated license plate detection system using Convolutional Neural Networks (CNNs) and traditional machine learning algorithms for accurate vehicle identification. **Tech:** Python, OpenCV, CNN, SVM, Scikit-learn. (2024)
- Real-Time Chat Application:** Built a secure, scalable real-time chat application using NodeJS and Socket.io, enabling instant communication and message storage in MongoDB. **Tech:** NodeJS, Socket.io, MongoDB. (2024)
- Social Media Analytics Dashboard:** Created a dynamic dashboard for analyzing and visualizing social media engagement metrics from platforms like Twitter, Facebook, and Instagram. **Tech:** Python, Django, APIs. (2024)

## HONORS AND AWARDS

- Top Performer – DevForge Coding Challenge, Chennai Institute of Technology** **(March 2024)**  
Earned "Top Performer" badge for full-stack development skills and problem-solving in backend infrastructure tasks.
- Winner – CodeX Hackathon, Saveetha School of Engineering** **(October 2024)**  
1st place for building a real-time license plate detection system using CNN and OpenCV.
- Top 5 – VIT Code Carnival, Vellore Institute of Technology** **(November 2023)**  
Recognized among top 5 teams for a social media analytics dashboard showcasing multi-platform engagement metrics.

## PUBLICATIONS

- Navigating Urban Dynamics for Evaluating the Impact of Deep Learning on Number Plate Recognition** in Comparison of Convolutional Neural Networks vs Pixel-Based Approaches for Analyzing Efficiency Enhancements **(November 2023)**
- Redefining Image Captioning: GPT-Based Models Surpass Transformer Networks in Contextual Accuracy and Fluency.** **(March 2025)**  
**Tech:** Flutter, Android, Firebase, TensorFlow, Python, Dart