

# Daiwiik Harihar

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## Summary

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- Third-year Computer Science undergraduate focused on software systems and AI-powered applications.
- Skilled in full-stack development, and API-driven application systems, with hands-on project experience.
- Selected for the prestigious iOS Student Development Program by Apple and Infosys.
- Exploring Generative AI, LLM-based application design, and cloud-native intelligent software deployment.

## Education

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<b>Dr. Vishwanath Karad MIT World Peace University, Pune</b> <i>B.Tech in Computer Science and Engineering</i>	<i>Aug 2023 – Present</i>
○ CGPA: 9.04 / 10 ○ <b>Coursework:</b> Data Structures, Design and Analysis of Algorithms, DBMS, Computer Networks ○ Active member of TEDx Tech Team, AWS Cloud Club (Design), and Innovation Hub (Technical).	

## Experience

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<b>Website Developer</b> <i>Paiwand Studio</i>	<i>Remote, Freelancer</i> <i>July 2025 – Present</i>
○ Developing and maintaining the company's primary website: <a href="https://paiwandstudio.com">https://paiwandstudio.com</a> ○ Building modern, responsive UI components with designers to enhance user experience and site performance. ○ Enhancing site visibility and engagement by implementing robust SEO and analytics for increased traffic. ○ Driving sales growth for repurposed textiles by optimizing digital presence and customer checkout flow.	

  

<b>Research Intern</b> <i>COEP Technological University</i>	<i>Shivajinagar, Pune</i> <i>June – August 2025</i>
○ Worked on AI-based Offline Exam Monitoring System using Deep Learning. ○ Led Head Movement Detection module with 3000+ image dataset and custom model training. ○ Built real-time DL inference pipelines integrated with application workflows for detecting cheating behaviours. ○ Used PyTorch, Docker, Roboflow, CVAT, and NVIDIA DGX (CUDA 11) for development and training. ○ Collaborated in a 7-member team, applying research to practice and earning positive mentor feedback.	

## Projects

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<b>Voice-Based User Interface for Hands-Free Data Entry</b>	<a href="#">github.com</a> ↗
○ Built 88.8%-accurate real-time speech-to-text system using 7 audio chunks (Web Speech API, WIT.AI). ○ Enabled multi-user, real-time sync for education, legal, and medical applications via React and Socket.IO. ○ Used MongoDB for storing and exporting transcribed records (.txt, .pdf, .csv) with enhanced processing via chunking, caching, and adaptive sampling.	
<b>Hospitality Hiring Platform</b>	↗
○ Built a full-stack recruitment system with seamless job postings, candidate applications, and dashboards for the hospitality sector. ○ Integrated secure authentication, dynamic listings, real-time hiring workflows, and version-controlled the project using Git and GitHub. ○ Utilized Prisma ORM with PostgreSQL for optimized data handling and scalability; deployed on Vercel for serverless performance.	

## Neo4j Knowledge Graph – GraphRAG Project

[github.com](#) ↗

- Built a knowledge graph using Neo4j to model entity relationships and enable semantic data retrieval.
- Explored Graph-based Retrieval-Augmented Generation (GraphRAG) using LangChain and Cypher query workflows.
- Designed graph schema and query pipelines for relationship traversal and contextual information retrieval.

## Publications

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**Voice-Based User Interface for Hands-Free Data Entry and Automation at Workplaces** [Link](#) ↗  
Daiwiik Harihar, Vedansh Shrivastava, Pratvina Talele, Dr. Aditi Jahagirdar

**Challenges and Opportunities in the Automotive Cybersecurity Landscape** Accepted, Jun 2025  
Arya Kulkarni, **Daiwiik Harihar**, Dr. Aditi Jahagirdar, Dr. Dhanashri Watagaeonkar  
Accepted as a book chapter in Cyber Safety and Reliability Engineering in Automobiles (CSREA2025)

## Technical Skills

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**Languages:** C, C++, Java, JavaScript, TypeScript, Python, R

**Generative AI:** RAG, Vector Database (Pinecone, Chroma), AI API integration

**Technologies:** Node.js, Express.js, React.js, Next.js, MongoDB, PostgreSQL, Prisma ORM, Git, Postman, AWS, Docker