

# H H Hemanth Kumar

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## Professional Summary

Final-year Computer Science student specializing in the intersection of AI/ML, full-stack development, and quantum computing. Proven ability to architect and deliver high-impact solutions, from AI-powered fintech systems to quantum-enhanced climate models for competitions like the NASA Space Apps Challenge.

## Education

**B.Tech, Computer Science Engineering** *Expected Jun 2026*  
Presidency University, Bengaluru *CGPA: 8.5/10*

## Technical Skills

- **Languages:** Python, Java, JavaScript, HTML/CSS
- **Web & Backend:** Node.js, Express.js, Flask, FastAPI, MongoDB, Firebase, React.js, AngularJS
- **AI/ML & Quantum:** PyTorch, OpenCV, Tesseract, Qiskit, PennyLane, Scikit-learn
- **Tools & DevOps:** Git, GitHub, AWS, Docker

## Experience

**Freelance Web Developer** *Feb 2024 – Present*  
Codezye Cyber

- Led the end-to-end design and development of the official company website, directly supporting client acquisition and online brand presence.
- Implemented a professional, multi-page web presence that effectively showcases the company's cybersecurity services and expertise.

**AI/ML Developer Intern** *Oct 2024 – Dec 2024*  
Innovitegra Solutions, Bengaluru, India

- Engineered an AI-powered verification system for the banking sector to automate and secure the Know Your Customer (KYC) process.
- Developed an OCR module to accurately extract data from KYC documents with over 95% precision, significantly reducing manual data entry costs.
- Built and fine-tuned a facial recognition model to match user selfies with document photos, achieving 98% accuracy and enhancing fraud detection protocols.

**Web Developer Intern** *Jul 2024 – Sep 2024*  
Creientech Infosystem, Bengaluru, India

- Delivered functional front-end modules for client web applications using the MEAN stack, receiving positive feedback on usability and performance.

## Projects

**QuantaWeather: Quantum-Enhanced Climate Forecasting**  
*Tech Stack: Qiskit (Python), PyTorch, PennyLane, FastAPI, React.js, AWS*

- Architected a novel platform leveraging quantum machine learning to enhance the precision of extreme weather predictions.
- Designed a hybrid quantum-classical architecture to tackle climate models potentially intractable for classical computers alone.

**Full-Stack E-Commerce Platform**  
*Tech Stack: React.js, Node.js, Express.js, MongoDB*

- Developed a feature-rich e-commerce site with user authentication, product catalog, shopping cart, and order management.

- Engineered a secure RESTful API backend and optimized database queries, reducing average API response time by over 20%.

## Achievements & Certifications

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- **Galactic Problem Solver:** Awarded for a top project submission in the NASA International Space Apps Challenge 2024.
- **Smart India Hackathon (SIH) Participant:** Competed at the national level, demonstrating creative problem-solving under pressure in one of India's largest hackathons.
- **Quant-A-Maze 2.0 Participant (2024):** Applied and reinforced quantum computing skills in a competitive university event.
- **Sandbox 2025 Cybersecurity Hackathon Participant:** Utilized security principles to solve challenges in a competitive cybersecurity hackathon.
- **Certificate of Completion, Alpha (DSA with Java):** Completed comprehensive Data Structures & Algorithms course from Apna College.

## Languages

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**English** (Proficient)    **Hindi** (Native)    **Kannada** (Proficient)