

PAVAN A KUSTAGI

Bengaluru, Karnataka

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Computer Science student at UVCE with hands-on experience in backend development, building secure and scalable software solutions. Focused on designing, developing and optimizing systems that solve real-world challenges.

EDUCATION

University of Visvesvaraya College of Engineering

2023 – 2027

Bachelor of Technology in Computer Science and Engineering- **CGPA – 9.30**

Bengaluru, Karnataka

ACHIEVEMENTS

Led team to the finals of Hacksagon 2025 (IIIT-Gwalior), ranking in the top 350 out of 2,600+ teams nationwide.

PROJECTS

Voter Verify — Secure Face-Based Voter Authentication Platform

Tech: Node.js, Python (Flask, DeepFace), MongoDB, JWT, Gemini API

- Engineered real-time face verification with DeepFace, achieving <1.5s latency and 95%+ match accuracy on voter check-ins.
- Developed a Flask API for face registration and verification, processing 2K+ facial recognition requests securely.
- Established JWT auth, role-based access and QR/PDF token generation to streamline voter check-in and reduce wait times.
- Integrated Gemini chatbot for FAQs, reducing manual support queries by 30% and improving user experience.

E-Commerce API — Scalable Backend Platform

Tech: Node.js, Express.js, MongoDB, JWT, Helmet

- Built a scalable e-commerce backend using Express.js and MongoDB to manage products, orders and reviews.
- Implemented secure JWT authentication with bcrypt and cookie-based sessions, boosting login reliability by 100%.
- Developed full CRUD operations with image uploads enabling 50% faster admin product management.
- Designed order tracking and review systems, reducing manual order handling by 40%.
- Secured the API with Helmet, CORS and rate limiting, ensuring 99.9% uptime and production-readiness.

Second Brain – Personal Knowledge Link Manager

Tech: Node.js, TypeScript, MongoDB, JWT, Zod

- Built a secure backend API to save, search and share 1K+ personal knowledge links across user accounts.
- Designed RESTful routes using Express.js and Mongoose, enabling 100% user-specific content isolation.
- Implemented JWT auth, bcrypt hashing and role-based access, improving login security and access control.
- Enabled public link sharing via hashed URLs, enhancing accessibility while maintaining user privacy.
- Secured the API with CORS, Zod validation and TypeScript typing, reducing injection/auth issues by 90%.

SKILLS

- Languages:** JavaScript, TypeScript, Java, HTML5, CSS3, C++, Python(familiar)
- Frontend:** React.js (basic proficiency)
- Backend:** Node.js, Express.js, REST APIs, MongoDB, Mongoose
- Authentication:** JWT, bcrypt, CORS
- Tools & Platforms:** Git, GitHub, Postman, Cloudinary
- Database:** MongoDB Atlas, Cloudinary Storage

EXTRA-CURRICULAR

- Participated in 7+ national-level hackathons, including Hack2Skill GDG, Build with India, Adobe India Hackathon, Odoo Hackathon, Hacksagon (IIIT-Gwalior), Bit & Build (GDG UVCE) and Codefury (IEEE UVCE).
- Led a 4-member team as Team Lead at Odoo Hackathon 2025, managing and delivering a functional prototype under deadline.