

# Rushi Daulatkar

Creating Efficient Solutions Through Web & Task Automation

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## SUMMARY

Top-performing Computer Science undergraduate (**1st Rank, CGPA 9.05/10**) and **Innovolt Hackathon Winner** with published research in Springer (selected among **top 15.8% of 1,003 papers** at ICIDA 2025). Demonstrated expertise in full-stack web development, intelligent automation, and cloud infrastructure through production-ready applications including AI-powered food analysis systems, self-hosted cloud solutions, and cross-platform automation tools. Experienced in React.js, Python automation, Docker containerization, and Zero-Trust network architectures through internships at Descam Cybersecurity, Pinnacle Labs, and Motion Cut. Cisco Networking certified with strong foundation in databases, algorithms, and collaborative development. Seeking to leverage technical proficiency and innovative problem-solving to contribute to impactful software development projects.

## EDUCATION

<b>St. Vincent Pallotti College of Engineering and Technology</b> <i>B.Tech in Computer Science and Business Systems (CSBS) – CGPA: 9.05/10.0</i>	Nagpur, Maharashtra Aug 2023 – May 2027
<b>Dr. M.K. Umathe College of Science</b> <i>Higher Secondary Certificate (HSC) – Science Stream</i>	Nagpur, Maharashtra June 2022 – Feb 2023
<b>Tapasya Public School</b> <i>Secondary School Certificate (SSC) – CBSE</i>	Arvi, Wardha June 2020 – Aug 2021

## TECHNICAL SKILLS

**Web Technologies:** React.js, HTML5, CSS3, JavaScript, jQuery, Bootstrap, Tailwind CSS, RESTful APIs  
**Programming Languages:** Python, C, C++, Java  
**Automation & Testing:** Python (Selenium WebDriver), Task Automation, Workflow Automation (n8n)  
**Databases:** MySQL, Database Design & Optimization  
**Development Tools:** Git/GitHub, Visual Studio Code, Docker, MySQL Workbench, IntelliJ IDEA  
**Hardware & Systems:** Raspberry Pi, Linux Systems Administration, Network Configuration  
**Core Competencies:** Data Structures & Algorithms, Zero-Trust Network Access (ZTNA), Cybersecurity Protocols  
**Languages:** English (Fluent), Hindi (Native), German (Basic)

## EXPERIENCE

<b>Cybersecurity Intern</b> <i>Descam Cybersecurity LLP</i>	Oct 2025 – Present Nagpur
<ul style="list-style-type: none"><li>Engaged in cybersecurity operations including security assessment and vulnerability analysis</li><li>Contributed to security projects while adhering to strict confidentiality agreements and industry best practices</li></ul>	
<b>Web Development Intern</b> <i>Pinnacle Labs</i>	Apr 2024 – May 2024 Remote
<ul style="list-style-type: none"><li>Developed responsive web applications using React.js and managed databases in a remote collaborative environment</li><li>Built mini-projects demonstrating component lifecycle, state management, and API integration</li></ul>	
<b>Frontend Web Development Intern</b> <i>Motion Cut Video Studio</i>	Nov 2023 – Dec 2023 Remote
<ul style="list-style-type: none"><li>Enhanced UI/UX design and optimized web performance using HTML, CSS, and JavaScript</li><li>Improved website functionality and user experience through frontend development best practices</li></ul>	

## PROJECTS

<b>IntelliRead – PDF Intelligence Platform</b>   <i>React 18, TypeScript, PDF.js, Groq</i>   <a href="#">🔗 Demo</a>	Sep 2025 – Jan 2026
<ul style="list-style-type: none"><li>Architected a fully client-side, no-backend PDF intelligence platform using React 18 and TypeScript, where all processing, storage, and retrieval occur entirely in the browser via IndexedDB – ensuring 100% document privacy with zero server uploads</li><li>Engineered an 8-stage PDF processing pipeline (upload → page analysis → text extraction → image rendering → AI description → normalization → chunking → indexing) capable of handling text-only, image-only, and mixed PDFs with graceful degradation on API failures</li></ul>	


- Integrated Gemini AI image pipeline that classifies pages as TEXT, IMAGE\_ONLY, or MIXED, renders image-only pages to PNG at 2x resolution, and generates searchable AI descriptions – making scanned documents and charts fully queryable
- Implemented multi-provider AI Q&A system supporting Groq, Perplexity, Anthropic, and Google Gemini with semantic chunk retrieval, context-aware prompting, and cited page-level responses using a keyword-scored ranking algorithm

**Pi-Vate Cloud** | *Raspberry Pi, OpenMediaVault, Docker, Plex, Twingate* |  Demo Aug 2025 – Dec 2025

- Designed and deployed self-hosted personal cloud ecosystem on Raspberry Pi 4 as cost-effective alternative to commercial cloud services, achieving **54% cost savings** over 5 years compared to Google One
- Implemented secure remote access using Twingate Zero-Trust Network Access without port forwarding, eliminating public attack surface while maintaining encrypted connectivity
- Configured Docker containers for Plex media streaming and automated backup services with OpenMediaVault NAS management

**AroGuard – Food Ingredient Decoder** | *React, TypeScript, Groq AI, Tailwind CSS* |  GitHub Nov 2025 – Dec 2025

- Built AI-powered web application to decode food ingredients, E-numbers, and preservatives using Groq API for intelligent ingredient analysis and safety classification
- Implemented real-time ingredient safety classification with interactive Recharts pie chart visualizations, categorizing ingredients into 5 safety levels with allergen highlighting
- Integrated Open Food Facts API with AI fallback scraping for comprehensive product analysis when ingredient data is unavailable
- Features include barcode search, allergen detection, IndexedDB caching for offline access, and AI chatbot powered by streaming responses for ingredient queries

**Browser Automation 3.0** | *Python, Selenium WebDriver, HTML/CSS/JavaScript* |  Website Oct 2024 – Dec 2024

- Developed cross-platform Python automation tool that automatically earns Microsoft Rewards points through intelligent search automation, with an interactive GitHub Pages website for easy setup across Windows and Parrot OS
- Implemented cross-platform compatibility with automated search functionality using trending topics API integration
- Created interactive setup website with step-by-step guides, screenshots, and copy-paste command functionality for easy installation with customizable search parameters (1-20 searches per session)

## PUBLICATIONS & COPYRIGHT

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**“Pi-Vate Cloud: A Self-Sovereign, Cost-Effective Personal Data-Ecosystem on Raspberry Pi”** Nov 2025

- *Innovations in Data Analytics – ICIDA 2025, Springer Lecture Notes in Networks and Systems*
- **Presented at International Conference** (December 7, 2025) – Selected among top **159 out of 1,003 papers (15.8% acceptance rate)**
- Co-authors: R. Raut, R. Daulatkar, A. Dhote, A. Pathode, H. Yadav
- Status: In Press – Expected publication in Springer LNNS within 6 months

**Copyright Registration** | “Building Your Own Cloud: Affordable, Private Storage with Raspberry Pi” Aug 2025

- Diary Number: LD-31512/2025-CO – Copyright Office, Government of India

## ACHIEVEMENTS

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**Academic Excellence – 1st Rank** Academic Year 2024-25

- Achieved first rank in academic performance at St. Vincent Pallotti College of Engineering & Technology with CGPA 9.05/10.0

**Innovolt Hackathon Winner** Feb 2025

- Secured podium finish at Innovolt hackathon held at S. B. Jain Institute of Technology, Management and Research, Nagpur
- Developed software-based solution for optimizing cargo ship navigation using routing algorithms and APIs to reduce fuel consumption and environmental impact
- Collaborated with team members to create real-world maritime technology solution

## CERTIFICATIONS

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- n8n Workflow Automation Course – Level 1** | n8n.io Sep 2025
- Mastered workflow design, API integrations, conditional logic, scheduling, and automation best practices
- Cisco Networking Basics Certification** | Cisco Networking Academy June 2025
- Validated knowledge of network fundamentals, protocols, and infrastructure
- SQL (Basic) Certification** | HackerRank June 2025
- Validated proficiency in database querying, JOINS, aggregations, and data manipulation
- SQL for Beginners: MySQL & Database Design** | Scaler Topics June 2025
- Completed 48 video tutorials, 5 modules, and 5 challenges covering MySQL fundamentals and database optimization