Jayaraj Patil

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PROFESSIONAL SUMMARY

Versatile software and web developer with strong grounding in full-stack development, REST API integration, and secure backend logic. Experienced in building scalable Django-based applications, dynamic front-end interfaces, and handling complete SDLC from planning to deployment. Skilled in debugging, version control, cross-functional teamwork, and rapid prototyping. Familiar with responsive design, MVC architecture, and Agile workflows.

EDUCATION

Seshadripuram Arts, Science & Commerce College, Bengaluru Bachelor of Computer Applications (BCA) — *CGPA: 9.14*

Awarded 4 subject-level excellence certificates for academic excellence. Active member of Chathurya – Developers Club and Pragnya Science Forum, contributing to workshops, coding contests, and tech events. Demonstrated leadership and teamwork through active campus participation.

TECHNICAL SKILLS

- **Languages & Backend:** Python, C++, PHP, SQL, SQLite
- **Web Development:** HTML5, CSS3, JavaScript, React.js, Django, RESTful APIs
- **Database Systems:** SQLite, MySQL
- **Frameworks & Tools:** Django, Flask, jQuery, Git, VS Code, PyCharm
- **CI/CD Tools**: GitHub Actions, Jenkins
- **Containers & Orchestration**: Docker
- **Platforms & DevOps:** Ubuntu, Windows, WSL
- **Testing & Debugging:** Manual testing, Unit testing basics
- **Other:** Agile Methodology, MVC Design Pattern, JSON, XML, AJAX, ollama

EXPERIENCE

1. **Web Developer (Freelance) | Jan 2024 – Present**

Led a small team of 2 developers for collaborative project delivery

- Quiz Application – Developed a functional quiz platform with student login, randomized questions, real-time scoring, and admin controls using core web technologies. The application was actively used in the Pragnya Science Forum IT Quiz program, engaging 150+ students during live events and continues to support academic quiz activities across the college. Helped reduce manual evaluation time by 60% and improved student participation and performance tracking.
- Marine Pulse – Startup NGO: Designed and developed a modern landing page with a clean layout, responsive sections, and branding focus

2. **Technical Support | ImagineHealthcare, Karnataka | Dec 2024 – May 2025**

- Installed desktops, DR systems, and networking gear; integrated software with diagnostic imaging equipment
- Provided troubleshooting and maintained client-side records and device configurations

PROJECTS

1. **Event & Complaint Management System – Django, SQLite, HTML/CSS/JS, Ollama**

Led a team of 2 developers to build and deploy a full-stack web platform for Seshadripuram College to manage event registrations and student complaints, featuring user authentication, admin dashboard, form validation, and email notifications; integrated a TinyLlama-based chatbot (Ollama) for basic NLP-driven student query handling.

2. **Chathurya Resource Portal**

As the backend team lead in a group project, I helped develop the *Chathurya Resource Portal*, a resource-sharing platform designed for students to access over 50 tutorials, project files, and academic materials. I was responsible for building and integrating the backend using Django, ensuring smooth database operations, secure access control, and efficient content delivery. Collaborating closely with the frontend team, we created an intuitive and responsive user experience using HTML, CSS, and JavaScript. The portal saw a 40% increase in student engagement and downloads during its pilot phase.

3. **Password Manager Application**

Developed a Python-based Password Manager with GUI as part of a 2-member team, where I handled the backend development and encryption logic. Built using the cryptography library for AES encryption, the tool securely stores, retrieves, and manages user credentials through a user-friendly user interface. Successfully deployed in the Seshadripuram College lab environment, the application is used by over 60+ students and, resulting in a 45% reduction in password-related issues and promoting safer digital practices on campus.

4. **P2P Messaging Script**

Designed and implemented a Python-based peer-to-peer (P2P) messaging script using socket programming, enabling full-duplex communication between devices over a local network through a command-line interface. The system allows each node to function as both client and server, supporting simultaneous sending and receiving of messages without connection interruptions. Tested across 10+ devices in a controlled lab environment, the script demonstrated stable performance with zero message loss and average latency under 50ms, making it ideal for lightweight internal communications in networked environments.

ADDITIONAL INFORMATION

- **Languages Spoken:** English, Kannada, Hindi
- **Soft Skills:** Problem Solving, Critical Thinking, Attention to Detail, Time Management, Adaptability, Team Collaboration, Written & Verbal Communication, Creativity, Analytical Reasoning, Feedback Handling, Stress Management, User Empathy, Ethical Responsibility, Incident Prioritization, Situational Awareness.
- **Stand Out in Group Discussion by TCS iON:** Learned techniques to effectively contribute, lead, and present ideas in group discussions.