

POONKAWIN SARAVANAN

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PROFESSIONAL SUMMARY

- I am an experienced Python Developer proficient in building scalable web applications with Django, FastAPI, and PostgreSQL.
- My expertise includes designing multi-tenant architectures and optimizing REST APIs, along with a solid background in full-stack development.
- Leverage AI-assisted development tools (Cursor, Windsurf) to accelerate development, streamline debugging, and improve productivity.

EXPERIENCE

Python Developer

January 2023 – Present

Mallow Technologies Private Limited

Coimbatore

- Designed and developed scalable RESTful APIs using Django and FastAPI, supporting multi-tenant architectures and high-performance backend systems.
- Implemented and optimized backend systems for data-intensive applications, improving API response times and overall system efficiency.
- Architected and maintained multi-tenant applications with a focus on scalability, code reusability, and clean system design.
- Integrated third-party APIs and built data ingestion pipelines, enabling efficient processing and analysis of large-scale external data.
- Developed and optimized web crawlers and scraping solutions to extract, transform, and process structured and unstructured data.
- Redesigned application architecture and established coding standards, significantly improving maintainability, consistency, and code quality.
- Worked extensively with PostgreSQL for efficient schema design, query optimization, and handling high-volume data operations.
- Contributed to full-stack development by building and integrating backend services with frontend technologies like React and InertiaJS.
- Collaborated with cross-functional teams to deliver reliable and scalable backend solutions aligned with business needs.
- Leveraged AI-assisted development tools such as Cursor and Windsurf to accelerate development, streamline debugging, and enhance productivity.
- Reduced development and debugging time through rapid prototyping, reusable components, and efficient development workflows.

TECHNICAL SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL, React(Basics), Java(Basics)

Frameworks/Library: Django, FastAPI, ReactJS, InertiaJS

Databases: PostgreSQL, MySQL, MongoDB

Developer Tools: VS Code, Pycharm, Cursor IDE, Windsurf (AI-assisted development)

EDUCATION

B.Tech. Information Technology (8.1 CGPA)

Aug. 2019 – May 2023

Sri Ramakrishna Institute of Technology

Coimbatore

PROJECTS

Group Buying Application (Group Buying Platform) | *Python, Django, PostgreSQL, NextJS*

- Smart rebate and incentive management software to manage — and grow — profitability.
- Primarily responsible for developing and optimizing REST APIs, occasionally contributing to React development.
- The application follows a multi-tenant architecture.
- Redesigned the project structure and set coding standards for better maintainability and scalability.
- Client approved the project standard without any modifications, leading to improved code quality and best practices in the application.

Amazon Sales Analytics Application | *Python, FastAPI, PostgreSQL, API, Scraping*

- Amazon Sales Analytics Application is an all-in-one analytics and reimbursement tool created specifically for Amazon and Walmart sellers.
- Primarily responsible for developing REST APIs.
- Integrated with Amazon SP API to enhance ecommerce insights.
- Worked on crawlers to extract and process ecommerce data efficiently.

Trainee Management System | *Django, PostgreSQL HTML, CSS, Javascript*

- This is an internal office application developed to efficiently manage and track trainees.
- Worked as a full-stack developer, building both admin and user applications.
- This was built during my intern period.

ECC Encrypted Blockchain-based Electoral System | *NextJS, Blockchain, Solidity, MongoDB, Encryption*

- This is my Final Year Project. Enhanced a secure and transparent voting system using blockchain technology.
- Ensured vote immutability and transparency using blockchain, preventing tampering. Integrated Elliptic Curve Cryptography (ECC) to encrypt sensitive voter data.
- Another advantage is instant result, ensuring faster vote counting and transparency.

Placement Management System | *Python, Django, PostgreSQL, HTML, CSS, Javascript*

- Created a Placement Management System for college, collaborating with the Placement Officer.
- Enabled bulk student and company additions, export to Excel, and advanced filtering.
- Integrated analytics to track student participation and identify weaknesses (e.g., Communication vs. Coding skills).
- Included an attendance tracking system for monitoring student presence in placements.

Contest and Giveaway Application | *Python, Django, PostgreSQL, HTML, CSS, Javascript*

- This is my Freelance Project. Developed an online platform enabling users to participate in contests and giveaways
- Worked as a full-stack developer, building both admin for managing contests and giveaways and user applications.