

RAKSHITH S

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SUMMARY

PHP/Laravel Software Developer focused on building in-house business applications for Corporate Sales, Operations, and Finance. Designs, develops, and maintains scalable web applications using Laravel, MySQL/MSSQL, and modern HTML/CSS/JavaScript. Experienced across the full SDLC: gathering requirements with stakeholders, producing proofs-of-concept and prototypes, planning sprints, coding, testing, integration, and O&M support with enhancements and bug fixes. Implements RESTful APIs and platform integrations, structures projects across UI/API/DB, and writes clear technical documentation and user guides. Collaborates cross-functionally, communicates in plain English, and delivers reliable software using OO analysis/design, revision control, and CI/CD practices.

EXPERIENCE

Siemens Healthineers

Bangalore, India

Software Engineer 1

July 2023 – Present

- Designed, developed, and maintained in-house business applications using **PHP/Laravel**, **MySQL/MSSQL**, and JavaScript; structured across **UI/API/DB**, leveraging **Blade**, **Eloquent ORM**, and **Composer**.
- Built and integrated **RESTful APIs** and third-party platforms; implemented **OAuth/webhooks**, **Swagger/OpenAPI** docs, input validation, and robust error handling with standardized responses.
- Conducted **requirements analysis** with stakeholders; produced **PoCs/prototypes**, iterated on feedback, prioritized features in sprints, and wrote technical specifications and user guides.
- Performed integration, testing, and **bug fixes**; supported applications in **O&M** with enhancements, **PHPUnit/integration/e2e testing**, performance tuning, and security updates (XSS/CSRF).
- Implemented **CI/CD** pipelines and Git workflows (branching/PRs, code reviews) using **Azure DevOps/GitHub Actions**; enforced quality gates to improve release reliability.
- Optimized **SQL** queries, indexing, and migrations; enforced normalization and data integrity; designed **Eloquent relationships**, transactions, and repository patterns.
- Developed responsive **UI** with **Blade**, **HTML5/CSS3**, and modular **JavaScript**; improved accessibility (**a11y**), form validation, and cross-browser compatibility.

Siemens Healthineers

Bangalore, India

Software Engineer Intern

February 2023 – July 2023

- Assisted in developing **Laravel modules** and PHP APIs; contributed to **MySQL** schema design, migrations, and Eloquent models; supported sprint deliverables.
- Built responsive **UI** with HTML/CSS/JavaScript; wrote **PHPUnit/integration tests** and contributed to documentation, improving maintainability and on-time delivery.

Beneath-a-Tree

India

Techno-Managerial STEM Internship

February 2022 – March 2022

- As a team of 4 STEM Trainers in Rural Gujarat for the STEM for Girls initiative, sparking interest in science and research. Planned events, communicated interculturally, and managed resources, logistics and execution.

SKILLS

Languages: PHP, JavaScript, HTML/CSS, SQL, C#/.NET, Java, Python

Web/Frameworks: Laravel, Blade, Eloquent ORM, Composer, RESTful API design

Frontend: modular JS, form validation, responsive UI, accessibility

Integration: third-party APIs, JSON/XML, OAuth, webhooks

Databases: MySQL, MSSQL, PostgreSQL; indexing, normalization, schema design

DevOps: Docker, Linux/Windows, CI/CD (GitHub Actions/Azure DevOps)

Version Control: Git, branching/PRs, code review, release management

Testing: PHPUnit, integration/e2e testing, Selenium/Playwright

Practices: SDLC/Agile, requirements gathering, documentation, collaboration

PROJECTS

Order-Matching-Engine ([Github](#)) | C#/C++, Docker, AWS

- Implemented high-performance trading services in C# with efficient **algorithms & data structures** for order books; designed **multithreaded** execution with concurrency controls.
- Built **RESTful APIs** and ingestion workflows; containerized with Docker on AWS; added **retry/backoff** for resilient I/O and profiled to optimize throughput/latency.

EchoLens – Code Analysis Tool ([Live](#) | [Github](#)) | AI, ML, 3D Visualization

- Created an AI-powered platform that predicts risks, detects technical debt, and visualizes dependencies; implemented ML-based hotspot prediction and semantic commit analysis.
- Developed pipelines for repository analysis; contributed to **architecture/design reviews**; delivered dashboards to guide refactoring and evaluation workflows.

Med-Pilot ([Github](#)) | FastAPI, PostgreSQL, OpenAI

- Developed an AI-driven healthcare platform with **RESTful APIs** and **PostgreSQL** data modeling; deployed on Linux; implemented semantic search with embeddings.
- Built multi-agent modules; **optimized queries & indexing**; followed **Agile/SDLC**; delivered scalable APIs and dashboards for evaluation workflows.

Sales CRM – In-House Web App ([Laravel](#), MySQL, HTML/CSS/JS)

- Built a **Laravel** CRM supporting Corporate Sales workflows (leads, accounts, opportunities) with **Eloquent models**, migrations, and role-based access.
- Implemented **RESTful APIs** and third-party integrations (webhooks/OAuth); wrote **PHPUnit/integration tests** and user guides; deployed on Linux with Docker.

Secure File Encryption Utility ([Github](#)) | Python, AES

- Implemented **AES/CBC** encryption with PKCS#7 padding; designed modular key management and robust error handling for reliability.
- Built CLI for usability; optimized byte-level performance; adhered to **coding standards** and maintainable design.

Music Genre Classification ([Github](#)) | Python, Librosa, scikit-learn

- Built ML pipeline for audio classification; implemented feature extraction and model training; achieved 67% accuracy with cross-validation.
- Created evaluation visualizations; documented **design decisions** and experiment results to guide improvements.

EDUCATION

National Institute of Engineering

Mysore, India

B.E in Electronics and Communication Engineering

August 2019 – July 2023

- Coursework: Computer Networks, Computer Architecture, DBMS, Big Data, Machine Learning, DSA, REST API.
- Language fluency: Kannada, English, Hindi.

CO-CURRICULARS

Xstasis Dance Group: Siemens Healthineers.

Project Head: UCSP Research Group, NIE.

Marketing & Design Head: Onyx E-Cell, NIE.