

# Dev Agarwal

SOFTWARE ENGINEER

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## SUMMARY

Software Engineer with over 1+ Years of professional experience in full-stack development and cross-platform architecture. Proven expertise in designing scalable internal tools, managing real-time data synchronization, and implementing complex business logic for corporate environments. Technical background includes proficiency in Python, SQL, and Dart, with a strong emphasis on writing clean, maintainable code and optimizing system performance. Demonstrated ability to collaborate in agile teams to deliver end-to-end software solutions from concept to production deployment.

## Technical Skills

**Languages:** Python, SQL (PostgreSQL/MySQL), Dart, C/C++, JavaScript, PHP.

**Frameworks & Libraries:** Flutter, pandas, NumPy, Matplotlib, Responsive Web Design.

**Engineering Tools:** Git & GitHub, Android Studio, VS Code, Postman, Firebase (Auth, Firestore).

**Core Competencies:** Data Structures & Algorithms (DSA), System Design, REST API Integration, JSON Parsing, Unit & Integration Testing, Database Normalization.

## Experience

### Software Engineer

Pune, MH

*Centralogic PVT LTD*

Mar 2023 – Apr 2024

- Architected a multi-tier HRMS module utilizing complex business logic for automated leave-balance tracking and approval workflows, reducing manual processing time by 40%.
- Engineered a secure, high-performance candidate assessment application featuring real-time data persistence and automated result generation for recruitment streamlining.
- Integrated 15+ RESTful APIs for a hospitality management system, ensuring data integrity and synchronization across distributed Android, iOS, and Web platforms.
- Optimized system performance by refactoring legacy codebases and implementing efficient data-caching strategies to significantly improve application response times.
- Collaborated with cross-functional teams to define JSON schemas and backend communication protocols, enhancing overall system stability and error-handling capabilities.
- Facilitated the full software development life cycle (SDLC), from initial requirement gathering and system design to final production deployment and debugging.

### Operations Manager

Ahilyanagar, MH

*Battledore Sports Academy*

Aug 2019 – Nov 2025

- Directed technical operations and logistics for regional sports championships, managing digital scheduling and registration for 100+ participants.
- Systematized financial reporting and attendance tracking through advanced Excel models, improving operational efficiency and transparency.
- Managed cross-functional teams of coaching and administrative staff to ensure seamless daily academy operations and event execution.

## Projects

### Divine Chats (Real-Time Communication Platform)

- Architected a real-time communication platform using PHP and MySQL, focusing on efficient database normalization and secure user authentication.
- Integrated RESTful APIs for seamless backend communication, handling JSON parsing and asynchronous data streams for instant messaging functionality.
- Optimized local data persistence and message caching to allow for smooth performance in low-connectivity environments.

### Internal Recruitment Suite (Automated Evaluation Tool)

- Developed a specialized software tool at Centralogic to automate the evaluation of candidate test results against predefined cutoff criteria.
- Programmed automated data export functionalities to generate comprehensive Excel-based reports for stakeholder review.

## Education

### The BPHE Society's Ahmednagar College

Ahilyanagar, MH

*Bachelor of Business Administration (Computer Applications)*

Jul. 2019 – Apr 2022