

Aman Chadha

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SKILLS

- Programming Languages: Laravel, PHP, Python, FastAPI, NodeJS, React, JavaScript | ES6 jQuery
- Databases: MySQL, MongoDB, MS Access, PL/SQL
- Tools and IDE: Selenium, Jest, Mocha, Jupyter Notebook, Bootstrap, REST APIs
- Monitoring and Infrastructure Tools: Grafana, Prometheus and Docker

PROFESSIONAL EXPERIENCE

Supreme Court Bar Association of India

06/2022 – present

Junior Developer

- Architected and developed a scalable CRM system using **PHP**, handling 20,000+ users, with secure authentication, **modular backend architecture**, and deployment readiness —resulting in a **40% improvement in administrative operations**.
- Built an **election module** to verify voter eligibility, and a **receipt generation system** for tracking subscriptions, stickers, and new admissions. Integrated **custom exports to Tally ERP** for streamlined accounting.
- Designed and implemented a **real-time dashboard** with **SMS OTP and email verification**, allowing members to securely check dues, sticker status, and update contact information.
- **Implemented server monitoring using Grafana and Prometheus**, enabling real-time tracking of server health, user activity, and application performance to prevent downtimes and optimize user experience.
- Deployed the application on a **Linux VPS**, configuring Apache, setting up **SSL encryption**, and ensuring optimal performance for large-scale concurrent access.
- Set up **automated server health checks** and backups to ensure uptime and system reliability for 20,000+ members.
- **Optimized database queries** and implemented caching mechanisms to significantly **enhance application speed** and responsiveness.
- **Containerized** the backend using **Docker**, enabling consistent local development environments and streamlined deployment workflows.

ZapBytes

12/2021 – 05/2022

Internship

- Developed a Python script using BeautifulSoup to parse KML files and convert network coverage data into JSON format, facilitating easier data manipulation and analysis.
- Created a Python API to automate JSON and CSV conversions, ensuring efficient data storage and enabling smooth integration with other systems.
- Developed and integrated a location-checking script using Shapely to assess network coverage feasibility based on geographic coordinates, automating evaluations to improve efficiency and data-driven decision-making.

GITHUB CONTRIBUTION

jQuery Library 🔗

Contributed to **jQuery** by resolving a bug in the `jQuery.event.special.remove` handler that caused elements to be skipped during cleanup when a component removed itself from the DOM. Fixed the issue by converting a live `NodeList` to an array before cleanup, ensuring all elements are properly processed. Authored unit tests to verify the fix and improve test coverage for DOM cleanup scenarios.

EDUCATION

Delhi University

Bachelors of Science, Computer Science (Hons.)

2019 – 2022

CGPA, 8.0

Relevant Courses: Data Structure and Algorithms, Linux, Database Management System, Object Oriented Programming (Java), Computer Networking