HIMANSHU RAJ AMAN

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Education

Indira Gandhi Open University   Jun. 2023 – Present
Masters in Computer Application   *New Delhi, Delhi*

Indira Gandhi Open University   Jun. 2019 – May 2024
Bachelors in Computer Application (70%)   *New Delhi, Delhi*

Patliputra University (A. N College)   Jun. 2018 – May 2021
Bachelors in Science (Physics) (H) 74.6%   *Patna, Bihar*

Experience

Samarth eGov   Oct. 2023 – Present
Software Developer · Academics   *New Delhi, Delhi*

- Managed the UG/PG admissions process for Delhi University, handling over **100,000** requests, showcasing strong organizational skills and attention to detail.
- Implemented a zonal model for marks entry, for 3-level hierarchy now utilized by **2,000+** colleges across **Assam and Mumbai**, demonstrating impact on educational institutions.
- Created **Result Handler** that **automated** result processing by streamlining a 3-step workflow into a single process, enhancing efficiency and reducing processing time using **queues**.
- Explored ways to visualize report of academic results to end users using HTML, Javascript, CSS, Charts.
- Developed a dynamic system to award grace marks to students, addressing various edge cases, conditions, and scenarios. Utilized **SQLite for attaching the db processing in memory**. Created a user-friendly interface for the **grace algorithm**, allowing for easy configuration on the user's end.
- Gained experience with **AWS ELB** and Amazon Machine Images (**AMIs**) to enhance application **scalability** and reliability.
- Optimized backend systems using **Yii2**, **MySQL**, and **SQLite**, ensuring robust performance and maintainability.
- Handled **complex MySQL queries** involving **JSON aggregation**, **nested relations** and conditional logic, improving data retrieval processes.
- Demonstrated strong knowledge of **CRON** jobs, Linux daemon services, and MySQL isolation levels for effective database management.
- Successfully implemented Yii2 **migrations** with **SQLite**, facilitating smooth database updates and ensuring data consistency.

Samarth eGov   May 2022 – Oct. 2023
Junior Software Developer · Academics   *New Delhi, Delhi*

- Integrated **NAD** API for secure automatic marks uploads, ensuring compliance and data integrity in the system.
- Developed a **dynamic template parser** for document processing, demonstrating innovation in automating administrative tasks.
- Integrated a feedback system into exam forms, generating **Excel** reports using **PHP SpreadSheet**, contributing to improved **data analysis** and decision-making.

Notebook Nation   Nov. 2021 – Feb. 2022
Full Stack Developer   *New Delhi, Delhi*

- **Migration from WordPress to Core PHP**: Developed user management, user authentication, and content management features from the ground up in PHP, focusing on both front-end and back-end aspects. Integrated **PHPMailer** to send weekly notifications to subscribed users through a queue-based mechanism. Utilized **Tailwind CSS** and **Alpine.js** to ensure the web app is responsive

Projects

Process Manager [Parallel Processing] | *PHP*   **Github**

- Performs multi processing in PHP, useful for processing huge datasets.
- The datasets are divided into smaller chunks, with each chunk executed in its own isolated shell, enabling parallel processing.
- Upon completion of execution, each child process reports its status back to the parent process, which intelligently queues additional child processes for the next chunk.

HGrid [YII2 Extension] | *YII2, PHP, jQuery/Javascript, Bootstrap*   **Github**

- Real time CRUD operation in grid view.
- Engineered an innovative YII2 extension enabling seamless real-time editing within the Yii2 grid view framework.
- Implemented Ajax requests to the server, utilizing masked model class paths to efficiently update records. Designed the extension to intelligently detect and modify related data within the grid view, enhancing user experience and efficiency with data validation.

ProfilePage [Link Tree Clone] | *Core PHP, Alpine JS, MySQL, Tailwind*   **Github**

- A page where all favourite links can be stored.
- Spearheaded the development of a comprehensive full-stack web application leveraging PHP MySQL, and Alpine JS for front-end functionality.
- Leveraged cURL and Window's Fetch API to retrieve and display website favicons for linked URLs, enhancing user experience.

Technical Skills

Languages: PHP, GO Lang, C, C++, SQL
Developer Tools: VS Code, PHP Storm, Git, Postman
Technologies/Frameworks: Github, WordPress, Vue JS, Alpine JS, MySQL, SQLite