

Himanshu Raj Aman

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EDUCATION

Indira Gandhi Open University

Master's in Computer Application

New Delhi, India

Jun 2023 -

Indira Gandhi Open University

Bachelor's in Computer Application 70%

New Delhi, India

Jun 2019 - May 2024

Anugrah Narayan College Patna

Bachelor's in Science (Physics) (H) 74.6%

Patna, India

Jun 2018 - May 2021

EXPERIENCE

Samarth eGov

Software Developer · Academics

New Delhi, IN

May 2022 - Present

- **Admission Management System:** Managed the UG/PG admissions process for Delhi University efficiently handling 100,000 requests. Gained experience with AWS ELB and Amazon Machine Images (AMIs) to enhance application scalability and reliability.
- **Evaluation:** Implemented a zonal model for marks entry, now utilized by 2,000+ colleges across Assam HEI, demonstrating impact on educational institutions.
- **Results Management:** Implemented Result Handler that automated result processing by streamlining a 3-step workflow into a single process, enhancing efficiency and reducing processing time using queue based mechanism.
- **Grace Management:** Developed a dynamic system to award grace marks to students, addressing various edge cases, conditions, and scenarios. Utilized SQLite for processing in memory. Created a user-friendly interface for the grace algorithm, allowing for easy configuration on the user's end.
- **Reports Management:** Handled complex MySQL queries involving JSON aggregation and conditional logic, improving data retrieval processes and reducing latency.
- **National Academic Depository:** Integrated NAD API for secure automatic marks uploads, ensuring compliance and data integrity in the system using REST API.

Notebook Nation

Full Stack Developer ·

New Delhi, IN

Nov 2021 - Feb 2022

- **Migration from WordPress to 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]: 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]: 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]: A page where all favourite links can be store. 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

PROGRAMMING SKILLS

Languages: Go Lang , C++ , C , Javascript , PHP , SQL

Technologies: MySQL , SQLite , Vue JS , Alpine JS , jQuery , Inertia JS