

# HIMANSHU RAJ AMAN

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## Education

### Indira Gandhi Open University

Masters in Computer Application

Jun. 2023 – Present

New Delhi, Delhi

### Indira Gandhi Open University

Bachelors in Computer Application (70%)

Jun. 2019 – May 2024

New Delhi, Delhi

### Patliputra University (A. N College)

Bachelors in Science (Physics) (H) 74.6%

Jun. 2018 – May 2021

Patna, Bihar

## Experience

### Samarth eGov

Software Developer · Academics

Oct. 2023 – Present

New Delhi, Delhi

- **Managed** the UG/PG admissions process for Delhi University, efficiently handling over **100,000 requests**, demonstrating strong organizational skills and attention to detail.
- **Resolved** critical production bugs promptly, ensuring system stability.
- **Implemented** a **zonal model** for marks entry, now adopted by **2,000+ colleges** in Assam and Mumbai, streamlining data entry and improving operational efficiency.
- **Automated** result processing with a **Result Handler**, consolidating a 3-step workflow into a single process, reducing processing time using **queue systems**.
- Developed interactive **visual reports** for academic results using **HTML, JavaScript, CSS, and Charts**, enhancing user experience.
- **Created** a dynamic system for awarding **grace marks**, addressing edge cases and complex conditions via an **SQLite in-memory database**, and built a user-friendly interface for configuration.
- Gained experience with **AWS ELB** and Amazon Machine Images (**AMIs**) to enhance application **scalability** and reliability.
- **Optimized** backend systems using **Yii2, MySQL, and SQLite**, improving performance and maintainability.
- **Improved** data retrieval with complex **MySQL queries** involving **JSON aggregation**, nested relations, and conditional logic.
- Leveraged **CRON jobs, Linux daemon services, and MySQL isolation levels** to manage databases effectively.
- Streamlined database updates and ensured data consistency through successful implementation of **Yii2 migrations** with **SQLite**.

### Samarth eGov

Junior Software Developer · Academics

May 2022 – Oct. 2023

New Delhi, Delhi

- **Integrated** the **NAD API** for secure automatic marks uploads, ensuring **compliance** and **data integrity** in the system.
- **Developed** a dynamic **template parser** for document processing, innovating administrative automation.
- **Integrated** a feedback system into exam forms, generating **Excel reports** using **PHP Spreadsheet**, improving **data analysis** and **decision-making**.

### Notebook Nation

Full Stack Developer

Nov. 2021 – Feb. 2022

New Delhi, Delhi

- **Migrated** the platform from **WordPress to Core PHP**, developing **user management, authentication, and content management** features from the ground up.
- **Created certificates** using **mPDF** and sent them to candidates in bulk via email, utilizing **CSV files** for email management.
- **Integrated PHP Mailer** to send weekly notifications to subscribed users through a **queue-based mechanism**.
- Utilized **Tailwind CSS** and **Alpine.js** to ensure the web app was fully **responsive**

## Projects

### Process Manager [Parallel Processing] | PHP

[GitHub](#) Mar. 2024

- 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](#) Jun. 2023

- 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.

### Profile Page [Link Tree Clone] | Core PHP, Alpine JS, MySQL, Tailwind

[GitHub](#) Feb. 2021

- 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