

MAHASWATA KUNDU

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TECHNICAL SKILLS

Technologies	PHP, CodeIgniter 3, AJAX, jQuery, Bootstrap, CSS, Font Awesome, Docker, GitHub Actions, Vibe Coding
Databases & Ops	PostgreSQL, MySQL, Database Optimization, Database Partitioning, Indexing, Query Optimization
Operating Systems	Ubuntu, Windows

PROFESSIONAL EXPERIENCE

Dept of Technical Education, Training & Skill Development, Govt of West Bengal Sep 2022 – Jun 2025
Software Developer (polytechnic.wbtetsd.gov.in)

- Portal Architecture:** Developed and maintained core features for the official West Bengal polytechnic portal, significantly improving performance and system reliability.
- Backend & Database Engineering:** Architected robust backend solutions using PHP and CodeIgniter 3. Managed full-scale database implementations using PostgreSQL; engineered system efficiency through targeted database optimization, partitioning strategy, and custom indexing to handle large-scale datasets.
- UI/UX Optimization:** Designed and implemented modern, responsive frontend interfaces using Bootstrap, CSS, Font Awesome, and jQuery to maximize overall user accessibility.

PUBLICATIONS & RESEARCH

"A New Function Mapping Approach in Defective Nanocrossbar Array Using Unique Number Sequence" 2020
Springer, International Conference on Computer, Communication and Signal Processing (COMSYS)

- Published book chapter researching architectural yield optimizations on nanoscale fabrics.
- Indexed Link: https://link.springer.com/chapter/10.1007/978-981-15-7834-2_75

EDUCATION

Government College of Engineering And Ceramic Technology 2019 – 2022
B.Tech in Information Technology

- Academic Performance: **Percentage: 91.9%**

Central Calcutta Polytechnic 2015 – 2018
Diploma in Computer Science & Technology

- Academic Performance: **Percentage: 80.60%**

PERSONAL INFORMATION

Languages Known: English, Bengali, Hindi

Nationality: Indian