

DEBOSMITA PAL

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SKILLS

- **Languages:** Java, C++, JavaScript
- **Frameworks:** HTML and CSS, Bootstrap, Node.js, React.js
- **Tools/Platforms:** MySQL, MongoDB, Git
- **Soft Skills:** Problem-Solving, Collaboration, Project Management, Adaptability

PROJECTS

- **SyncUniserve | Booking Appointment Website| [GitHub | Live]** Aug' 25-Sep' 25
 - Engineered a secure, full-stack appointment booking platform for doctors, grooming, and home repair services, reducing manual scheduling time by 40%.
 - Developed real-time booking management and implemented user authentication protocols.
 - Optimized React.js UI and Node.js/Express backend APIs to ensure 99.9% system uptime and seamless user experience.
 - Tech Stack: MongoDB, Express.js, React.js, Node.js
- **DNAVision | DNA Sequence Analyzer| [GitHub | Live]** Jul' 25-Aug' 25
 - Architected a high-accuracy bioinformatics tool for DNA pattern matching, nucleotide frequency analysis, and protein translation.
 - Innovated reverse complement generation and sequence statistics to accelerate genomic data interpretation by 35%
 - Applied advanced algorithms to optimize data analysis, visualization, and extraction of biological insights, enhancing processing efficiency by 40%.
 - Tech Stack: HTML, CSS, JavaScript
- **BallisticsID | Ballistic Recognition Tool| GitHub** May' 25-Jun' 25
 - Conceptualized a MERN-based ballistic recognition system enabling high-accuracy image upload, matching, and analysis
 - Pioneered algorithms to identify and compare ballistic patterns, achieving ~92% recognition accuracy in test datasets.
 - Streamlined data processing, reducing image analysis time by 30%, and designed an intuitive user interface for efficient forensic investigations.
 - Tech Stack: MongoDB, Express.js, React.js, Node.js

TRAINING

- **CipherSchools** Jun' 25-Jul' 25
 - Trainee | Java with OOPS
 - Streamlined a Java-based Mental Health Simulator using OOP principles, improving code modularity and maintainability by 40%.
 - Developed a mood-tracking system with personalized wellness recommendations, increasing user engagement by 80%.

CERTIFICATES

- Learnathon'25: Learn AI and Gen AI Basics| [Microsoft](#) Sep' 25
- Postman API Fundamentals Student Expert| [Postman Academy](#) Aug' 25
- Cloud Computing| [NPTEL](#) May' 25

ACHIEVEMENTS

- Ranked in the top 10% of GSSoC'25 contributors by resolving issues, optimizing codebases, and delivering high-impact features in major open-source projects.
- Achieved 5-star Java badge on HackerRank by solving problems demonstrating expert proficiency and coding accuracy.
- Recognized as a Super Contributor during Hacktoberfest 2025 for impactful open-source contributions.

EDUCATION

- **Lovely Professional University** Phagwara, Punjab
 - Bachelor of Technology - Computer Science and Engineering| **CGPA: 7.23** Aug' 23-Present
- **Vidyasagar Shishu Niketan (ICSE & ISC)** Midnapore, West Bengal
 - Intermediate; PCMB | **Percentage: 87.5** Apr' 22 – Mar' 23
- **Vidyasagar Shishu Niketan (ICSE & ISC)** Midnapore, West Bengal
 - Matriculation; **Percentage: 96.2** Apr' 20 – Mar' 21