MADHUSUDAN DAS

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Professional Summary

Highly motivated and detail-oriented Computer Science graduate with a strong foundation in Java, SQL, and web development. Experienced in building secure software solutions and adept at collaborating in cross-functional teams to solve complex technical problems with a user-focused mindset. Eager to apply a solid understanding of data structures, algorithms, and software design to contribute to the development of distributed, resilient software in a fast-paced, iterative startup environment. Seeking a full-time Software Development opportunity to accelerate professional growth and deliver impactful real-world projects.

PROJECT WORK

Secure Two-Party Computation Using Homomorphic Encryption (link)　　　　　　　**April 2025**

- Developed a secure two-party computation system utilizing Homomorphic Encryption (BFV, Paillier, CKKS) to perform arithmetic operations on encrypted data.
- Implemented a foundational distributed client-server model with socket communication, demonstrating strong problem-solving and debugging skills.

Plant Disease Detection-　　Tools: Jupyter Notebook, Python Language　　(LINK)　　　**August 2024**

- Developed a robust Plant Disease Detection prediction model using K-means clustering and ANN techniques to enhance predictive accuracy.
- Implemented crucial data preprocessing and cleaning processes, showcasing analytical and data handling capabilities.

College Website (FRONT END)　Tools: HTML, CSS, JavaScript, VS Code, GitHub　　(LINK)　　　**March 2024**

- Designed and implemented website functionality, collaborating with a team using GitHub for iterative development.

TECHNICAL SKILLS

- **Languages & Web:** JAVA, SQL, C, Python, HTML, CSS, JS
- **Tools & Platforms:** GitHub, VS Code, GCP, MySQL, Jupyter Notebook , Tkinter
- **Coursework:** DSA, OPPS, Operating System, DBMS, Computer Networks, Software Engineering

EDUCATION

Ramkrishna Mahato Government Engineering College, Purulia	**2021 – 2025**
B.Tech - Computer Science and Engineering – **CGPA:8.74**	Purulia, West Bengal
AMARKANAN DESHBANDHU VIDYALAYA	**2020**
Higher Secondary – Pure Science – Percentage: 92.20	Amarkanan, Bankura, West Bengal
GOGRA S.C. HIGH SCHOOL	**2018**
Secondary - General – Percentage: 84.00	Gogra, Bankura, west Bengal

CERTIFICATIONS

- NPTEL: Cryptography and Network Security –**(Certificate)**　　　　JULY-OCTOBER 2022
- IBM Developer Skills Network: SQL and Relational Databases –**(Certificate)**　　September 2024
- Cloud Computing – NPTEL **(Certificate)**

EXTRACURRICULAR:-

Continuous Self-Development: Engaged in self-directed learning through online coding tutorials and personal growth literature.
Focus & Resilience: Utilize Yoga and Meditation to enhance focus and maintain composure in challenging environments.