

ARKAPRABHA DE

Third Year Undergraduate, Java Backend Developer
Behala, Kolkata, India

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EDUCATION

B.Tech [CSE(AI)] : Institute of Engineering & Management (Salt Lake, Kolkata, India)	2022 - 2026	CGPA : 9.42
12 th (ISC) : Vivekananda Mission School (Joka, Kolkata, India)	2022	Percentage : 96.4
10 th (ICSE) : Vivekananda Mission School (Joka, Kolkata, India)	2020	Percentage : 95.2

PROJECTS

Query.AI (SpringBoot, PostgreSQL, DeepSeek-R1) - An end-to-end Doubt resolving platform. • Designing the Student, Teacher, Query databases for easy authentication and answer retrieval. • Doubts are answered personalized by DeepSeek from an answer file uploaded by teachers.	(Mar 2025)	
ParcelFlow (Java, SpringBoot, PostgreSQL) - An Online Delivery Application Backend • Designed and implemented secure authentication & order management, improving transaction security. • Passed rigorous testing with 10+ accounts with no bugs reported, ensuring high reliability.	(Feb 2025)	
HealthFuzz (Python, Neural Networks, Fuzzy logic) - A Mangrove Health Predictor using Fuzzy Rules • A neuro-fuzzy approach to classify mangrove trees on the basis of leaf-features into 3 health classes for each of the 3 species. • Achieved an accuracy of 98% with the fuzzy rules derived from the Neural Network, resembling the ANFIS method.	(Jan 2025)	
PiPark (Python, Raspberry-pi) - A Priority-based parking system based on frequency. • The prototype authenticates users using phone number and OTP and saves valuable information locally. • The testing phase comprised 20+ cars and the prototype successfully allocated parking places priority-wise .	(Feb 2024)	
Poseidon (Arduino, Python, Bluetooth) - A remote-controlled water-surface garbage-cleaning boat. • The prototype boat is controlled through a custom built mobile application via bluetooth . • The boat was able to clean up-to 95% of surface garbage on a small stagnant water-body.	(Jan 2023)	
Minesweeper (Java) - The Classic Minesweeper game built from scratch . • Users play on a Command Line Interface (CLI). In spite of the lack of GUI, other functionalities were perfect. • Successfully tested with 50+ players without bug reports, ensuring robust gameplay logic.	(Feb 2022)	

SKILLS

Languages: C, C++, Java, Python, HTML	Libraries: C++ STL, JCF, BeautifulSoup, OpenCV, Scikit-Learn
Frameworks: SpringBoot	Data Analytics: MS Excel, Pandas, Numpy, Matplotlib
Databases: MySQL, PostgreSQL	Relevant Coursework: DSA, OOP, DBMS, AIML
Technical Skills: Competitive Coding, Neural Networks, Data-Scraping, Micro-controllers	
Areas of Interest: Machine Learning, Artificial Intelligence, Computer Vision	
Soft Skills: Problem Analysis, Continuous Learning, Technical Communication, Flexible Mindset, Collaborative efforts	

EXPERIENCE

Miamin Systems Inc. (Global Capacity Centres Providers) - <i>Software Engineer Intern</i> • Designed and implemented a scalable backend architecture for an online delivery application. • Topics Learnt: SpringBoot, RESTful APIs, PostgreSQL, Postman (for testing).	Online (Dec 2024 - Mar 2025)	
Future Infotech (Computer Teaching Centre) - <i>Teacher</i> • Developed structured curriculum for 30+ students of classes 5-12, leading to 20% average score improvement. • Topics & Languages Taught: OOP, DSA, MS Office, C, C++, Java, Python	Behala (Jan 2023 - Present)	

PUBLICATIONS

• Arkaprabha De, et al. (Feb 2023). Poseidon: Surface Water Garbage Collector . <i>International Journal of Innovative Research in Physics</i> , Vol. 4, Issue 2, pp. 27-31. DOI: 10.15864/ijiip.4205.	
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ACHIEVEMENTS

First Position: CodeBreak Odyssey - Competition operated in Innovacion event of IEM.	(Mar 2024)
First Position: Blind Coding - A blind-coding Competition devised by IEEE-IEM.	(Jul 2024)
Second Position: An Online Competitive Coding Event organized by IEEE-IEM.	(Jul 2024)

CERTIFICATIONS

NPTEL		Coursera	
• DSA using Java	(Oct 2023)	• Introduction to Generative AI	(Dec 2024)
• Getting Started with CP	(Apr 2024)	• Fundamentals of Java Programming	(Jan 2025)
• GPU Architectures & Programming	(Apr 2024)	• Data Structures & Backend with Java	(Feb 2025)