BIJAY DAS

B.Tech Computer Science & Engineering Undergraduate • Full-Stack & Systems Developer

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PROFESSIONAL SUMMARY

Motivated and detail-driven Computer Science Engineering undergraduate with solid foundational experience across full-stack web applications, relational and NoSQL database architecture, and applied machine learning models. Adept in Data Structures, Algorithms, and Object-Oriented software design with practical expertise translating business requirements into scalable software systems. Eager to contribute technical proficiency in Node.js, JavaScript, and Java toward building robust enterprise and web platforms.

TECHNICAL SKILLS

Languages	C, C++, Java (Core & Advanced), Python, JavaScript (ES6+)
Web Technologies	HTML5, CSS3, Node.js, AngularJS, RESTful APIs
Databases & Storage	MySQL (Relational Schema Design, Queries), MongoDB (NoSQL)
Core Competencies	Data Structures & Algorithms (DSA), OOP Design, Machine Learning (ML), Image Processing
Developer Tools	VS Code, IntelliJ IDEA, Eclipse, PyCharm, Dev-C++, Git, GitHub

TECHNICAL PROJECTS

Lung Cancer Disease Detection System (IEEE Project) — Machine Learning & Computer Vision

Python, OpenCV, Scikit-learn / TensorFlow, Image Processing

- Constructed an automated computer vision diagnostic pipeline to classify pulmonary abnormalities and detect lung cancer patterns from CT scan image datasets.
- Evaluated and tuned machine learning classification models, yielding elevated accuracy, precision, and diagnostic sensitivity.

Enterprise Hospital Management System — Academic Capstone

Java, OOP, JDBC, MySQL, Swing/AWT

- Architected a modular desktop management system automating doctor schedules, patient admissions, medical logs, and billing.
- Implemented clean Object-Oriented principles (encapsulation, abstraction) to ensure seamless data segregation across departments.
- Integrated persistent relational storage through MySQL via JDBC with transactional validation and query optimization.

Banking Record & Transaction Management System — Systems Software

Java / C++, OOP, File Handling / MySQL

- Designed a high-reliability transaction simulation engine handling account provisioning, real-time balance queries, deposits, and transfers.
- Enforced stringent input validation routines and transactional safeguards to prevent state inconsistency and arithmetic race conditions.

TECHNICAL TRAINING

Core Java & Enterprise Development Program — **QSpiders** — Jul 2024 – Aug 2024

- Completed an intensive industry-standard curriculum covering Object-Oriented Programming, Collection Framework, Exception Handling, Multi-threading, and Database connectivity (JDBC).

EDUCATION

B.Tech in Computer Science & Engineering (Core)
Adamas University, Kolkata
2024 – 2027 (Currently Enrolled)

Diploma in Engineering
Gaighata Government Polytechnic
2020 – 2023

Higher Secondary Examination (Class XII)
Fulia Siksha Niketan
Completed 2020

Secondary Examination (Class X)
Fulia Siksha Niketan
Completed 2018