Deepankar Karn

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Education

Asansol Engineering College — Asansol, West Bengal
Master of Computer Applications (MCA) - CGPA: 8.09/10 — *Oct 2023 – July 2025*

Asansol Engineering College — Asansol, West Bengal
Bachelor of Computer Applications (BCA) - CGPA: 9.28/10 — *Sept 2020 – July 2023*

Experience

Junior Application Support Analyst (Intern) — Jan 2025 – Jun 2025
EPAM Systems — *Hyderabad, Telangana, India*

- Gained knowledge about .NET C# enterprise-level applications and understood basic to advanced-level concepts
- Analyzed and troubleshot complex production issues using C# debugging, log analysis, and SQL query optimization, reducing mean time to resolution by 35%
- Collaborated with cross-functional teams following Agile Scrum methodology to deliver solutions for critical incidents and implement preventive measures
- Documented technical procedures and created knowledge base articles, enhancing team productivity

Technical Skills

Languages: C#, Java, SQL, Shell Scripting (Bash)
Frameworks & Technologies: .NET Framework, .NET Core, ASP.NET, Entity Framework
DevOps & Cloud: Docker, Kubernetes, AWS (EC2, S3 basics), GitHub Actions (CI/CD), Git Netlify
Databases & Tools: SQL Server, MySQL, MongoDB, Firebase, Visual Studio, JIRA, Linux/Unix
Core Competencies: Object-Oriented Programming (OOP), SOLID Principles, Design Patterns (Factory, Singleton), RESTful APIs, Agile/Scrum, Asynchronous Programming, Test-Driven Development

Projects

Real-Time Inflation-Adjusted SIP Calculator — Jan 2025 – Jun 2025
C#, .NET, RESTful API, Asynchronous Programming, JSON

- Developed a robust financial calculation tool in C# to project Systematic Investment Plan (SIP) returns over a 30-year horizon
- Integrated World Bank API using HttpClient to fetch real-time Consumer Price Index (CPI) data, enabling dynamic inflation-adjusted maturity calculations
- Implemented complex financial algorithms to determine nominal returns, real rates of return, and purchasing power erosion
- Engineered custom error-handling framework using user-defined exceptions (ZeroAndNegativeException, InvalidYearException) to ensure data integrity
- Utilized asynchronous programming patterns (async/await) to prevent UI blocking during network requests and System.Text.Json for efficient data parsing

Console-Based Banking System — Jan 2025 – Jun 2025
C#, .NET, Factory Design Pattern, OOP, SOLID Principles

- Designed a scalable console-based banking application using Object-Oriented Programming principles including inheritance, polymorphism, and encapsulation
- Implemented Factory Design Pattern to streamline the creation of Savings and Current accounts based on runtime user input
- Developed robust custom exception handling framework (InsufficientBalanceException, DuplicateAccountNumberException) to ensure transaction safety
- Enforced SOLID principles and business logic constraints such as minimum balance requirements and overdraft limits specific to account types

Yatrik - Travel & Tourism Application — July 2025 – Sept 2025
React.js, Firebase, Tailwind CSS, Netlify, REST APIs, CI/CD

- Developed a responsive Single Page Application (SPA) for travel planning using React.js and Tailwind CSS, ensuring seamless mobile-first user experience
- Integrated Firebase Authentication and Realtime Database to manage user sessions, store travel itineraries, and handle dynamic content delivery
- Implemented modern UI/UX design system with Tailwind's utility classes for rapid prototyping and consistent theming across the application
- Configured CI/CD pipelines via Netlify and GitHub Actions for automated deployment, testing, and hosting, optimizing for performance and scalability, which is also transferable to enterprise cloud environments

Calories Burn Prediction (MCA Major Project) Jan 2025 – Jun 2025

Python, Machine Learning, Scikit-learn, Pandas, NumPy

- Developed a machine learning model to predict calories burned based on user physical activity and physiological parameters
- Implemented regression algorithms using Python, Scikit-learn, and data preprocessing techniques for accurate predictions
- Performed exploratory data analysis (EDA) using Pandas and NumPy to identify key features affecting calorie expenditure

LinkIt - Social Media Profile Aggregator (BCA Major Project) Jan 2023 – May 2023

React.js, Node.js, MongoDB, Express.js, REST APIs

- Built a full-stack web application to consolidate and manage social media profile links using MERN stack architecture
- Designed RESTful APIs with Node.js and Express.js for CRUD operations, integrating MongoDB for persistent data storage
- Implemented responsive frontend using React.js with component-based architecture for optimal code reusability and maintainability

Past Achievements & Leadership

Selected for **Hexaware IMS Trainee Program** in BCA final year - Recognized for strong technical aptitude in competitive selection process

Shortlisted for **Wipro WILP Program** - Gained comprehensive understanding of enterprise IT recruitment standards

Qualified **TCS National Qualifier Test (NQT)** - Demonstrated proficiency in technical reasoning and problem-solving

Selected as **Subject Matter Expert at Inovlence Learning** - Contributed expertise in computer science education and mentorship

Served as **Computer Application Department Representative for 5 years (BCA - MCA)** - Represented my department during the visit of NAAC Peer team and also at different occasions during my college journey

Served as **Training and Placement Coordinator at AEC** - Led campus recruitment initiatives, coordinating with 20+ companies