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   *Aug 2020 – Aug 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, 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

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