

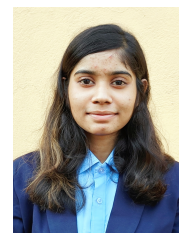
MINAL PRADIP KOSE

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EDUCATION

Indian Institute of Technology, Kharagpur

Integrated MSc in Physics – CGPA: 8.0

– Microspecialization in Entrepreneurship and Innovation

2019 – 2024

West Bengal, India

WORK EXPERIENCE

Filuet India Pvt. Ltd

Software Engineer (.NET, React, Azure, SQL)

Feb 2025 – Present

Gurugram

- Implemented audit trails using **Audit.NET**, enabling real-time tracking and product-specific audit displays on the portal for compliance and debugging
- Integrated **third-party payment APIs** (CCAvenue) to automate payment processing, and transaction status monitoring
- Architected a logging system for UI, capturing logs via API calls and storing them both locally and in Azure Blob Storage
- Streamlined pagination with **keyset pagination** and timestamp-based tracking, reducing API response times by **30%**
- Developed an order reporting pipeline using **Azure Service Bus** and **Azure Functions** to asynchronously process real-time data from the Order Table, enabling Power BI analytics with **<1-minute latency**
- Constructed a order reporting feature with customizable filters (date ranges, statuses) and one-click CSV downloads
- Integrated **SignalR** for real-time UI updates, enabling instant payment status notifications and live planogram quantity synchronization (reducing refresh latency from 30s to **<1s**) upon product dispensing

Filuet India Pvt. Ltd

Full-Stack Developer Intern

Aug 2024 – Jan 2025

Gurugram

- Designed **50+ RESTful APIs** using **Domain-Driven Design**, reducing endpoint complexity through modular architecture
- Refined **20+** optimized database schemas in SQL Server via strategic indexing and normalization.
- Reduced API errors by **90%** by building a global **Exception Handling Middleware** with custom exceptions
- Implemented **JWT**-based auth with role-based access control (RBAC), securing **100%** of API endpoints against OWASP Top 10 vulnerabilities
- Pioneered chunked uploads for large media files (1GB+), leveraging Azure **Queue-triggered Functions** to parallelize reassembly, cutting upload time by **65%**
- Integrated **SwaggerUI** for automated API documentation, cutting onboarding time for frontend teams by **50%**

PROJECTS

Big Integer Library

High-Performance Arbitrary-Precision Arithmetic Library

2024 – 2025

Github Repo

- Designed a high-performance arbitrary-precision integer library supporting integers up to **10^{1000}** (1,000 digits), achieving **15%** better memory efficiency than standard libraries through enhanced digit storage and memory allocation strategies
- Engineered cryptographic algorithms (modular exponentiation, primality tests, square roots) using **FFT-based multiplication** and **divide-and-conquer**, reducing time complexity from $O(n^2)$ to $O(n \log n)$ for large-number operations

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, SQL, C++, C, Python

Frameworks & Libraries: .NET (Windows Services, Entity Framework), React (+MUI), Node.js, Redux, Serilog, SignalR

Tools & Platforms: Azure (Blob, Functions, Service Bus, Queues), MongoDB, SSMS, Git, Visual Studio, VS Code, Postman

Concepts: REST APIs, OOP, Domain-Driven Design, Microservices, Data Structures & Algorithms, SOLID principles

RELEVANT COURSEWORK

Mathematics: Linear Algebra, Probability & Statistics, Mathematical Methods, Computational Physics

Entrepreneurship: Foundations of Entrepreneurship, Engineering Design Process, Management of Growth Ventures