

Sugam Adhikari

Software Engineer

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Experience

Smart Data Solutions

June 2024 - Present

Platform Architect

Eagan, Minnesota

 <https://sdata.us/>

- Leading the upgrade of a large-scale legacy Java codebase (~35,000 classes) from Java 8 to 21 and transitioned the build system from Ant to Gradle, improving build consistency and developer experience.
- Set up an internal build artifact caching server that cut local build times from ~30 minutes to ~5 minutes, saving hours of engineering time each week.
- Improved dependency hygiene by applying static analysis to identify and remove unused libraries; replaced flatDir dependencies with a maintainable setup within Gitlab Package registry.
- Technology Used: Java, MySQL

Verisk

June 2022 - May 2024

Software Engineer

Jersey City, New Jersey

 <https://www.verisk.com>

- Involvement in legacy ETL dashboard re-write from .NET Framework, AngularJs and SQL Server to .NET Core 6, Angular 13, and Aurora PostgreSQL.
- Architect the backend from the ground up with layered architecture, set up unit testing, integrate hashicorp vault for auth, and implement structured logging across the application.
- Create interactive charts using chart.js and ng2-charts to monitor processing speed.
- SQL query optimization focused on flexibility and reusability without compromising performance, adhering to the new schema by studying the read/write frequencies within tables and introducing strategic indexing.
- Technologies used: .NET, Angular, SQL, Razor, AWS(S3, EC2, Aurora), EF Core, LINQ.

Naamche

August 2021 - December 2021

Software Engineering Intern - Full Time

Kathmandu, Nepal

 <https://naamche.com>

- Built the initial stage of the notification system and implemented error handling with custom error types across the backend for a US-based gig economy product.
- Technology used: NodeJs, GraphQL, Typescript, PostgreSQL.

Education

London Metropolitan University

September 2019 - June 2022

B.Sc. (Hons) Computing

Bachelors

Graduated as Upper Second Class Honours

Research

University of Illinois Urbana-Champaign

March 2023 - Present

Research Internship

Illinois

- Published a paper in IEEE ICSME: [GlueTest: Testing Code Translation via Language Interoperability](#)

Skills

Java

C#

Python

SQL

TypeScript