

# SOURAV DAS

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## EDUCATION

**Northeastern University**, Boston, Massachusetts

Jan 2025 - Present

Candidate for a Master of Science in Computer Science

Expected Graduation: May 2027

Coursework: Algorithms, Programming Design Paradigm, Database Management Systems, Web Development

**Biju Patnaik University of Technology**, Bhubaneswar, India,

Apr 2016 - Jun 2020

Bachelor of Technology in Civil Engineering

## TECHNICAL KNOWLEDGE

<b>Languages:</b>	Python, Java, C++, C# (Plus: SAP ABAP, SQL)
<b>Backend/Systems:</b>	REST API, SAP HANA, MongoDB
<b>Web technologies:</b>	HTML, CSS, JavaScript, Django, React, Node.js, JSON/HTTP
<b>Tools and Platforms:</b>	AWS (EC2, S3, Lambda), Google Cloud, Docker, Git, PostgreSQL
<b>SAP Modules:</b>	SAP IS-U, SAP MM, SAP CRM
<b>Concepts:</b>	Data Structures, Algorithms, Object-Oriented Programming (OOP), MVC Architecture, Software Development Life Cycle, SOLID Design Principles, Distributed Systems, GUI Design
<b>Certifications:</b>	Google Cloud Certified Professional Cloud Architect (ID: 100076) Google Cloud Certified Associate Cloud Engineer (ID:139218)

## WORK EXPERIENCE

**Accenture**, Kolkata, India

May 2021 - Dec 2024

Application Development Analyst

- **Implemented** an enhanced BADI to integrate supplementary details related to the source of supply and functionality for payment percentage in Purchase Orders (ME23N/ME21N) transactions.
- **Engineered** a report program to transfer entries from a Standard table in SAP ECC to SAP S/4HANA utilizing various BAPIs, ensuring seamless data integration and migration.
- Resolved client-raised incidents on SAP IS-U using ServiceNow, ensuring timely and efficient issue resolution to maintain system integrity and client satisfaction.
- **Advocated** a high-priority issue by deploying a function module to update the communication channel within the workflow container which triggered the necessary correspondences.
- **Spearheaded** the design and implementation of an automated batch job within SAP Metering which efficiently transmitted meter details using SAP customer exits and XML integration, **streamlining** the activation process for meters at various sites. The result is the significant reduction in manual workload with an enhanced operational efficiency.
- Honored with 'National Meter Reading Day kudos' award by Accenture leadership team for delivering key analytics and automation that enhanced operational efficiency.

**Wefivesoft**, Bengaluru, India

Mar 2021 - May 2021

Software Engineer Trainee

- Implemented REST APIs to facilitate seamless data exchange between the front-end and back-end systems for the LMS system called 'MARKERS PRO'.
- Reduced API latency by **40%** through asynchronous programming, contributing to performance optimization in large-scale systems.
- Developed and implemented transaction management and data validation protocols, ensuring data integrity and consistency throughout the system.

## PROJECTS

**Calendar Application** | GitHub: [https://github.com/Sourav-02121996/calendar\\_application](https://github.com/Sourav-02121996/calendar_application)

- Designed and developed a desktop calendar application, enabling users to create, edit, and delete events with options for recurring schedules and reminders.
- Integrated features for managing multiple calendars, event privacy, and time zone support, enhancing usability.
- Built an intuitive GUI with dialog-driven workflows for calendar settings and event editing.

**Skills:** Java, Java Swing, Object-Oriented Programming (OOP), MVC Architecture, SOLID Design Principles, GUI Design, Event Handling, Data Structures, Algorithms, Git, Debugging, Following best practices in System Design for Scalable Systems

**AI for Compression/Search Optimization** | GitHub: <https://github.com/Sourav-02121996/aiCompressionSearch>

- Built a semantic search pipeline on the AG News dataset using Sentence-Transformers embeddings and FAISS indexes (FlatIP, IVF-Flat, IVF-PQ) to evaluate trade-offs in latency, recall, and memory usage with automated CSV logging.
- Designed and implemented a benchmarking framework with automated CSV logging, achieving up to **95% recall@10** while reducing index size by **80%** and query latency by **5x** compared to exact search. Applied **MVC** architecture for modularity and reproducibility.

**Skills:** Python, FAISS, Sentence-Transformers, NumPy, Pandas, Data Structures, Algorithms, MVC Architecture, Performance Benchmarking