SOURAV DAS

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EDUCATION

Northeastern University, Boston, Massachusetts — Jan 2025 - Present
Candidate for a Master of Science in Computer Science (GPA: 3.58) — Expected Graduation: May 2027
 Coursework: Algorithms, Programming Design Paradigm, Machine Learning, Web Development

Biju Patnaik University of Technology, Bhubaneswar, India — Apr 2016 - Jun 2020
Bachelor of Technology in Civil Engineering

TECHNICAL KNOWLEDGE

Languages:	Python, SAP ABAP, Java, C++, SQL, Go (basic proficiency)
Backend/Systems:	REST APIs, SAP HANA, MongoDB
Web Technologies:	HTML, CSS, JavaScript, Django, React.js, Express.js, Node.js, JSON/HTTP
Data/ML:	Pandas, NumPy, scikit-learn, XGBoost, Regression/Tree-based models, EDA, Metrics
Tools and Platforms:	GitHub, Git CLI, MySQL, Google Cloud, Docker, PostgreSQL, AWS (EC2, S3, Lambda)
Concepts:	Data Structures, Algorithms, Object-Oriented Programming (OOP), MVC Architecture, Software Development Life Cycle, SOLID Design Principles, Distributed Systems, GUI Design
Certifications:	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

- Built SAP Fiori (SAPUI5) screens for procurement workflows by updating XML views and controller logic, wiring screens to OData (SAP Gateway), and adding field-level validations (mandatory checks, format/range rules) to reduce incorrect submissions and rework.
- Added automated testing for UI changes using QUnit (and OPA5 for smoke flows where applicable), reducing regressions during releases and improving confidence in production deployments.
- Integrated Fiori UI with backend services via OData (SAP Gateway); optimized UI performance by reducing unnecessary round trips (batch/read consolidation, payload trimming), cutting average page load time by 20% on key flows.
- **Engineered** an ETL-style data migration pipeline moving transactional records from SAP ECC to S/4HANA via standard BAPI interfaces, mapped source to target schemas, implemented validation checks, and ensured reliable, lossless integration.
- **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 was a significant reduction in activation turnaround from 10.4 hours to 6.0 hours (**42% faster**), reduced manual touches by 36% (approximately 58 hours/month saved), and raised first-pass data completeness to 99.2% through schema validation and automatic retries.

Wefivesoft, Bengaluru, India — Mar 2021 - May 2021
Software Engineer Trainee

- Implemented REST APIs to facilitate seamless data exchange between the frontend and backend 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

Grill and Go, full-stack sandwich shop platform | GitHub: https://github.com/Sourav-02121996/Project2_Grill_and_Go

- Designed and delivered the Grill and Go full-stack sandwich shop platform combining a responsive static frontend with an Express/Node.js API and MongoDB persistence to support menu browsing, cart checkout, and employee workflows.

Skills: HTML, CSS, Bootstrap, JavaScript, Express.js, Node.js, MongoDB Atlas, bcrypt, REST APIs, MVC Architecture, SOLID Design Principles, Git, Debugging, System Design for Scalable Systems

LostNFound, full-stack campus lost and found platform | GitHub: https://github.com/Sourav-02121996/Project_3_LostNFound

- Designed and built a MERN-stack 'Lost and Found' web application for the Northeastern community, enabling students to post, search, and manage lost/found items with images, categories, locations, and status updates via a secure JWT-authenticated profile dashboard.

Skills: HTML5, CSS, Bootstrap, JavaScript, ESLint, ES6 Modules, Express.js, React.js, Vite, Multer, bcrypt, REST APIs

Semantic Retrieval for Recommendations | GitHub: https://github.com/Sourav-02121996/Semantic_Retrieval

- Built a semantic search and benchmarking pipeline using Sentence-Transformers embeddings and FAISS indexes (FlatIP, IVF-Flat, IVF-PQ), automated CSV logging to compare latency/recall/memory trade-offs, and achieved up to 95% recall@10 with 80% smaller index size and 5x faster queries vs exact search while following MVC for modular, reproducible experiments.

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