SOUVIK NANDI

Senior Software Engineer | AI & Automation Enthusiast | Azure & .NET Expert

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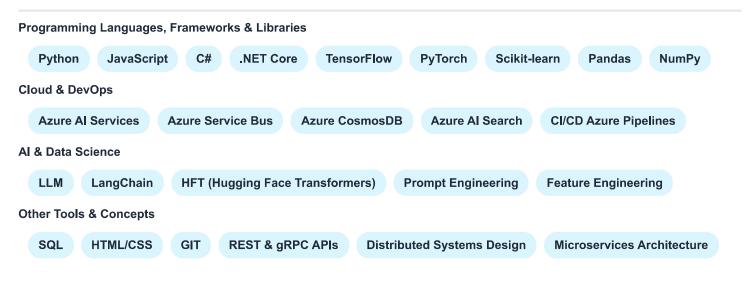
👤 Summary

Results-driven Senior Software Engineer with 7+ years of experience building scalable backend systems and enterprise-grade applications. Currently at Microsoft, driving cloud-native solutions and AI-powered innovations. Specialized in: Azure   .NET (C#)   Python   Azure AI Services   LLM Integration   Prompt Engineering
Proven track record in leading complex projects, improving performance, and resolving production issues. Designed intelligent backend workflows integrating LLMs for document analysis, recommendation engines, and AI-based process optimization.

⚒ Skills

Programming Languages, Frameworks & Libraries

Python   JavaScript   C#   .NET Core   TensorFlow   PyTorch   Scikit-learn   Pandas   NumPy

Cloud & DevOps

Azure AI Services   Azure Service Bus   Azure CosmosDB   Azure AI Search   CI/CD Azure Pipelines

AI & Data Science

LLM   LangChain   HFT (Hugging Face Transformers)   Prompt Engineering   Feature Engineering

Other Tools & Concepts

SQL   HTML/CSS   GIT   REST & gRPC APIs   Distributed Systems Design   Microservices Architecture

📈 Experience

Microsoft
Software Engineer 2

Dec 2022 – Present | Hyderabad, India

- Architected and led the **Azure Event Management platform**, enabling intelligent auto-healing and self-diagnostic capabilities using AI-based log and telemetry anomaly detection.

- Developed a **Smart Subscription system** integrating Azure AI Search and OpenAI, achieving automated event correlation and reducing triage time by **60%**.

- Built an internal AI assistant using Azure OpenAI and Teams transcripts, improving engineering onboarding and support productivity by **40%**.

- Led architectural design for privacy-resilient distributed systems using **C#, .NET, and Cosmos DB**, integrating ML-based throttling for high-load services.

- Implemented a secure dynamic execution engine for customer-submitted code in isolated environments with Azure ML model selection for runtime decision-making.

- Proficient in threat modeling, performance tuning, and seamless integration of **AI pipelines in cloud-native architectures**.

Microsoft
Software Engineer

Dec 2021 – Nov 2022 | Hyderabad, India

- Designed and developed the core **Azure Event Management platform** to support mission-critical app resiliency and intelligent escalation workflows.

- Introduced AI-enhanced case routing using text classification and similarity models, improving case assignment accuracy.

- Worked on event-driven architecture and integrated early anomaly detection using **Python and Azure ML** to preemptively flag outages.

Soroco
Senior Software Engineer

Feb 2021 – Nov 2021 | Bangalore, India

- Led development for **Scout Enterprise**, driving improvements in task mining, user behavior modeling, and interactive UI visualizations.

- Architected critical components for Scout's real-time data ingestion and rendering pipeline, improving latency and throughput by **35%**.

- Mentored junior engineers, reviewed architecture proposals, and contributed to technical design discussions across teams.

Soroco
Software Engineer

Aug 2019 – Jan 2021 | Bangalore, India

- Built and maintained core APIs and workflow logic for **Process Designer**, enabling scalable process automation across enterprises.

- Integrated data visualizations and flow-based tools to allow business users to configure and simulate workflows with ease.

- Worked closely with product and QA teams to launch stable feature rollouts and conduct regression testing.

Kreeti Technologies Pvt. Ltd.
Web Engineer

Nov 2017 – Aug 2019 | Kolkata, India

- Migrated legacy systems and optimized complex database queries for **Clockwork Recruiting**, improving performance and data integrity.

- Developed **Smart Gardener** from scratch—a dynamic crop recommendation tool with Stripe payment integration and responsive frontend.

- Scaled Faburica's cloud infrastructure using load balancers, autoscaling, and the **ELK stack** for log analytics and monitoring.

Indian Institute of Technology, Guwahati
Research Intern

Jan 2016 – Feb 2016 | Guwahati Area, India

- Pioneered research at the **User Centric Computing & Networking Lab**, leading to a methodology that reshaped user experience design.

- Developed **A Linear Algebraic Approach to Determine a Common Ordered Scan Path**, an algorithm that increased eye-tracking accuracy by **80%**, now adopted in IITG for VR technologies development.

- Architected an innovative annotation feature for an ICT-based **E-Learning System**, boosting student engagement.

- Conducted high-stakes server load testing for an ICT-based **E-Learning System**, ensuring flawless performance under extreme conditions and enabling the platform to support over 1 million concurrent users during online education surges.

Kalyani Government Engineering College
Coordinator Cryptix 2017, Espektro (Part-time)

Mar 2017 | West Bengal, India

- Masterminded the **CRYPTIX 2017** event during **ESPEKTRO 2017** (technical fest of KGEC), transforming it into the WBUTs largest online cryptography challenge, attracting over **1000+** participants from **50+** colleges.

Kalyani Government Engineering College
Web Developer, Espektro 2017 (Part-time)

Jan 2017 – Feb 2017 | West Bengal, India

- Revolutionized the digital presence of **ESPEKTRO 2017** (technical fest of KGEC) by designing a 3D animated and interactive website using **three.js** and advanced web technologies, driving a **200% increase** in event registrations.

🎓 Education

Kalyani Government Engineering College
B.Tech, Computer Science & Engineering
CGPA: 8.3/10

2013 – 2017

- Conducted multiple tech events, including organizing workshops and competitions during **ESPEKTRO 2017**.
- Founded the **Robotics Club**, fostering innovation and hands-on learning in robotics and automation among students.
- Finalist in the **Smart India Hackathon 2017**, working on a project analyzing climate changes based on migratory bird data, contributing to environmental research.

Hariyana Vidya Mandir
Science, AISSCE
Percentage: 92.5%

2012 – 2013

- Excelled in the AISSCE Science stream, securing **92.5%**.
- Awarded the **Merit Scholarship** for academic performance and leadership in science exhibitions.

🔀 Projects

Leetcode Extractor
📅 Apr 2025

- Developed a tool to extract data from Leetcode, enabling users without premium access to search, filter, and sort problems by companies and other parameters, and access editorials.
- 🔗 **Link:** simpleandsmart.org

Linear Algebraic Approach for Eye Gaze Scan Path
📅 Jan 2016 – Feb 2016

- Researched and developed a method to determine a common ordered scan path from eye gaze data of multiple users.
- </> **Technologies Used:** `Linear Programming`
- **Associated with:** Indian Institute of Technology, Guwahati

Automated Scoring Application for Student Essays
📅 Dec 2016 – May 2017

- Designed an application to automatically score student essays and short answers using NLP techniques.
- </> **Technologies Used:** `Python` `NLTK`

Video Categorization for Scene Change Detection
📅 Dec 2015 – Apr 2017

- Built a system to categorize videos by detecting scene changes and identifying characters in movies.
- </> **Technologies Used:** `MATLAB` `XILINX` `ModelSim`
- **Associated with:** Kalyani Government Engineering College

Object Identification Using Canny Edge Detection
📅 Dec 2016 – Apr 2017

- Developed a system to identify objects in images using the Canny Edge Detection algorithm.
- </> **Technologies Used:** `MATLAB`
- **Associated with:** Kalyani Government Engineering College

A Bar Charts Application
📅 Oct 2017

- Developed a web application to create and visualize bar charts with interactive features.
- </> **Technologies Used:** `ReactJS` `HTML5` `Bootstrap3`
- 🔗 **GitHub:** github.com/souviknandi24/bar-charts

An Event Task Management Webapp
📅 Sep 2017

- Built a web application to manage tasks and schedules for events, improving team coordination.
- </> **Technologies Used:** `Ruby on Rails` `MySQL` `HTML5` `Bootstrap3`
- 🔗 **GitHub:** github.com/souviknandi24/eventask

Online Job Portal
📅 Apr 2017

- Created a platform for job seekers to search and filter relevant job postings efficiently.
- </> **Technologies Used:** `PHP` `MySQL` `HTML5` `CSS3` `Bootstrap3` `JavaScript`

✹ Certifications

Microsoft Azure AI Fundamentals
📅 Apr 2025

🏢 Microsoft

- ✅ AI Overview — 8ZA5U3DW
- ✅ Computer Vision — 9YFJ72ZU
- ✅ Document Intelligence and Knowledge Mining — YEMN3K3R
- ✅ Generative AI — 8ZA3XNUW
- ✅ Natural Language Processing — 9YFJ72ZU

Microsoft Security Certifications
📅 Apr 2025

🏢 Microsoft

- ✅ Enhance Security Operations using Microsoft Security Copilot — 4G5Q4Z4K
- ✅ SC-200: Mitigate Threats using Microsoft Security Copilot — XQVWX3RY

Cloud Security Challenge
📅 Jan 2022

🏢 Google Cloud Skills Boost

- ✅ Bonus
- ✅ Level 1
- ✅ Level 2
- ✅ Level 3

Programming Skills
📅 Jun–Jul 2020

🏢 HackerRank

- ✅ JavaScript (Basic) — de26feb88556
- ✅ Python (Basic) — 6da868c90c7f
- ✅ Angular (Basic) — 317e14383218
- ✅ Problem Solving (Basic) — 806f322b2f00

Data Science Specialization
📅 Mar 2019

🏢 Coursera

- ✅ Data Science Orientation
- ✅ The Data Scientist's Toolbox
- ✅ What is Data Science? (IBM)

Web Development
📅 Jun–Jul 2017

🏢 Udemy

- ✅ Bootstrap 4 Rapid Web Development — UC-CHHPBZEO
- ✅ JavaScript for Web Development Beginners — UC-0K6N4E62

Programming in C
📅 Dec 2014

🏢 NPTEL

- ✅ Introduction to Programming in C

🔤 Languages

🌐 English	Fluent
🌐 Hindi	Fluent
🌐 Bengali	Proficient