

SOUVIK NANDI

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

📍 India

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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**.

- 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/eventtask

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