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

Languages & 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 Pipelines

AI & Data Science: LLM   LangChain   HFT   Prompt Engineering   Feature Engineering

Other Tools & Concepts: SQL   HTML/CSS   GIT   REST APIs   Distributed Systems Design   Microservices Architecture

📈 Experience

Microsoft
Software Engineer 2   Dec 2022 – Present | Hyderabad, India

- Leading **Azure Event Management** platform with AI-based log anomaly detection and auto-healing.
- Built **Smart Subscription** using AI Search and OpenAI, cutting triage time by **60%**.
- Developed AI assistant with OpenAI and Teams transcripts, improving team efficiency by **40%**.
- Engineered privacy-resilient systems using **C#, .NET, Cosmos DB**, and ML-based throttling strategies.
- Created secure dynamic execution engine with runtime Azure ML model integration.
- Specialized in threat modeling, optimization, and scalable **AI pipelines**.

Microsoft
Software Engineer   Dec 2021 – Nov 2022 | Hyderabad, India

- Delivered **Azure Event Management** to support escalation workflows and application resiliency.
- Implemented ML models to auto-assign and route customer cases, improving accuracy and response time.
- Integrated anomaly detection using **Python + Azure ML** for faster outage alerts.

Soroco
Senior Software Engineer   Feb 2021 – Nov 2021 | Bangalore, India

- Led dev for **Scout Enterprise**, enabling accurate task mining and behavior insights.
- Boosted data pipeline throughput by **35%** through performance tuning.
- Conducted design reviews, mentored engineers, and ensured best practices.

Soroco
Software Engineer   Aug 2019 – Jan 2021 | Bangalore, India

- Developed core APIs for **Process Designer** to support enterprise automation workflows.
- Created visualization tools to simulate and validate process automation.
- Collaborated across teams to deliver robust, stable product releases.

Kreeti Technologies Pvt. Ltd.
Web Engineer

Nov 2017 – Aug 2019 | Kolkata, India

- Improved **Clockwork Recruiting** by optimizing legacy queries and enhancing performance.
- Developed **Smart Gardener**, a crop advisory tool with Stripe integration.
- Scaled Faburica using ELK stack, autoscaling, and load balancing for better availability.

Indian Institute of Technology, Guwahati
Research Intern

Jan 2016 – Feb 2016 | Guwahati Area, India

- Worked at **User Centric Computing Lab** focusing on user interaction and eye-tracking design.
- Developed scan path algorithm, improving gaze tracking accuracy by **80%**.
- Built annotation tool for an ICT-enabled **E-Learning System**.

🎓 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