

SACHIN SAW

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PROFESSIONAL SUMMARY

Software Engineer | 4+ YOE | Microsoft | Ex-Amazon | Full-stack, Cloud, ML | IIT Kharagpur

Experienced in designing scalable systems and data pipelines across AWS and Azure. Proven ability to lead cross-functional initiatives, reduce latency in distributed systems, and deliver AI-integrated solutions. Skilled in clean architecture, problem-solving, and driving measurable impact through innovation.

EXPERIENCE

Microsoft – Software Development Engineer

Jun 2024 – Aug 2025

Windows System and Software Integration (WSSI)

Hyderabad, India

- Developed a cross-IHV insights portal using **Dash + Plotly**, featuring **interactive dashboards and analytics UIs** that let engineers compare WebGPU and PerceptiveShell profiling across architectures — **cutting analysis time from hours to minutes** and enabling environment-style reproducibility for testing and analysis.
- Implemented a heartbeat monitoring system in **Python + Azure** for scheduled health checks and instant email alerts — **reducing incident detection time by over 90%** and virtually eliminating unplanned downtime.
- Improved dashboard performance by **11× (45s → 4s)** via threaded data retrieval, selective **caching**, and query optimization — significantly enhancing engineer satisfaction and adoption.
- Built a multi-workload profiling and testing framework to orchestrate workload execution, process results, and push structured data to **Postgres(SQL)** for self-serve analytics.

Amazon – Software Development Engineer

Jul 2022 – Aug 2023

Alexa Application Gateway Service (A2GS)

Pune, India

- Engineered a dynamic response-building mechanism in **Alexa's backend** that generates only required payload fields — **reducing latency and memory usage** under load.
- Modularized person object generation into a dedicated **Spring** component, simplifying code paths and enabling future extensibility with minimal refactoring.
- Redesigned speechlet payload creation with a **directed graph-based execution model** to enable **parallel processing** — reducing latency by **8 ms** and increasing throughput during high concurrency.
- Managed high-priority **Sev-2** incidents and escalations during office hours, ensured SLA compliance by prioritizing tasks effectively and maintaining stable queues.

Technoforte – Junior Software Engineer

Jun 2021 – Jul 2022

Palms, HandyPalms

Bangalore, India

- Revamped inbound warehouse workflows in the HandyPalms app using **Xamarin**, resulting in faster processing, improved **UX**, and reduced manual effort on the warehouse floor.
- Resolved 100+** high-priority client and user issues, improving system stability and building trust through consistently fast response times.
- Delivered user stories on schedule, contributing to timely sprint completion and strong client relationships via dependable, deadline-driven execution.

PROJECTS

Trendy News (Flutter, GCP, Python – Full-stack Developer)

- Built the Trendy News **Android app** end-to-end using **Flutter** (frontend), **Python** (backend), and **Google Cloud**, delivering **AI-generated** 60-word news summaries for fast, on-the-go consumption.
- Integrated multiple news providers across Business, Sports, Entertainment, and Technology categories, offering users a quick and efficient way to stay updated on global events.

AI Cricket Umpire (ML Project – Computer Vision, VGG19)

- Built an **AI-powered** cricket legality classifier using a pre-trained **VGG19** model to detect legal vs. no-ball deliveries from bowler images, achieving **93% accuracy** in real-world scenarios.
- Secured **1st place at Kshitij 2020** and won an INR 20,000 award for **innovation** and high model performance, outperforming peers in both accuracy and practical application.

3D Visualizer (National Central University, Internship)

- Developed an interactive **3D vector visualizer** to plot spheres and cylinders using spherical and cylindrical coordinates, making abstract math concepts tangible and engaging for students.
- Deployed the tool at **National Central University (Taiwan)** to support academic instruction and enhance comprehension and retention in mathematics through visual learning.

UFO Shooter (Game from scratch)

- Built a high-performance UFO Shooter game in **C++** using the **SFML** library, applying object-oriented principles to create a clean, modular architecture with consistently high frame rates.
- Enhanced player engagement by adding particle effects, sound design, and adjustable difficulty settings, delivering a polished and customizable gameplay experience.

SKILLS

Languages	Python, Java, C/C++, JavaScript, Dart, Kotlin
Frameworks	Flutter, Node.js, Xamarin, Flask, Spring, React
Cloud Platforms	AWS, Azure
Tools	Docker, Azure DevOps, Visual Studio, Android Studio, VS Code
Operating Systems	Windows, Linux, Mac

EDUCATION

Indian Institute of Technology, Kharagpur
Bachelor of Technology in Chemical Engineering

Aug 2017 – Mar 2021
CGPA: 8.48 / 10

Ramchand Kimatram Talreja College
High School (Science Stream)

Jun 2014 – Feb 2016
Percentage: 80 / 100

LEADERSHIP

- Led a Microsoft hackathon project to develop **AudioTranslate** — a near **real-time**, on-device audio translation tool for Windows that preserves user privacy and removes language barriers.
- Directed the **Autonomous Underwater Vehicle (AUV)** team at IIT Kharagpur to design and build a working torpedo and torpedo launcher system for marine navigation tasks.
- Headed the **gold-winning product development team** at Rajendra Prasad Hall of Residence, delivering an award-winning solution during inter-hall technology competitions.

EXTRA-CURRICULAR ACTIVITIES

- Passionate **tech enthusiast**, always exploring, experimenting, and tracking **emerging technologies**.
- Designed and implemented **AI agents** that autonomously generated and interacted with **GraphQL** APIs, enabling dynamic data retrieval and experimentation with software automation environments.
- Dedicated **fitness enthusiast**, committed to maintaining an active and healthy lifestyle.
- Enjoy playing **volleyball**, **pool**, and **table tennis** for recreation and team engagement.