

SAHIL SHAIKH

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Summary

Systems-minded SWE and founder with a passion for building elegant, reliable tools from the ground up. Experienced in architecting complex systems, from custom version control to full-stack blockchain applications. Available January 2026 (F-1 STEM OPT).

EDUCATION

Purdue University

Aug 2022 - Dec 2025

Bachelor of Science, Computer Science, Data Science

- **Coursework:** Analysis of Algorithms, Machine Learning and Data Mining, Database and Information Systems, Computer Architecture, Systems Programming, Large Scale Data Analytics

EXPERIENCE

Synq

May 2025 - Present

Founder

<https://synq.website>

- Creating a devOps platform that integrates version control with project management, making collaboration in small, fast-moving teams realtime and easy; bootstrapped, private beta (10 MAU).
- Built a custom VCS, enabling file syncs (pulls/pushes) with Go + Python backend, using binary diffing and WebSockets to cut per-sync bandwidth by ~85-95% on small edits.
- Shipped Go-based background agent + menu bar app to automate pulls and file locks; added E2E tests that cut dev feedback loop by 10x.

Artificial Intelligence for Musicians Lab (under Dr. Yung-hsiang Lu)

Apr 2025 - Present

Research Assistant

West Lafayette, IN

- Developed ROS-based control software on Ubuntu for a Baxter robot, enabling it to play musical melodies on a steel tongue drum; performed 'Hot Cross Buns'.
- Programmed tempo-controlled trajectories with custom calibration scripts, boosting Baxter's strike accuracy by 67%.

Trust Lab, Indian Institute of Technology Bombay (IITB)

May 2024 - Jul 2024

Software Engineer Intern

Mumbai, MH

- Built AlgoTrust, a full-stack document verification platform using ReactJS and Python/Flask; built RESTful APIs to manage data flow between the frontend, IPFS storage, and the Algorand blockchain.
- Wrote PyTeal smart contracts integrating IPFS CIDs to bypass on-chain limits, enabling scalable, encrypted off-chain storage.

PROJECTS

GolfMate | [Github](#)

Apr 2025

- Implemented an AI-powered swing analysis tool that won Best AI-Driven Solution at Catapult Hacks 2025 by delivering real-time golf posture feedback using video input.
- Trained GRU model ($F1 = 0.86$) from 200+ labeled swings; benchmarked vs. ST-GCN and Random Forest baselines, using MediaPipe landmarks and Gemini API feedback.

3x Hackathon Wins

Mar 2025 - Present

- Developed cross-chain AI payment agent, AnyPay, winning "Best use of Chainlink CCIP/CCT" at ETHGlobal NYC '25. (August)
- Engineered DeepLever, a margin trading platform built on Sui, winning the prize for the best app built on Sui at Nexus, TTU's web3 hackathon. (May)
- Built a golf posture analysis tool, GolfMate, which won "Best AI Driven Solution" at Catapult '25, Purdue's AI hackathon. (April)

SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, R, SQL, Assembly x86_64, Move, Rust, Go
- **Tools and Technologies:** Azure ML, Scikit Learn, PyTorch, React Native, OpenCV, Agile, Docker
- **Campus Involvement:** Teaching Assistant for CS251 (Data Structures and Algorithms) [Summer 2025], Dev Team for Boiler Blockchain, Teaching Assistant for CS253 (Data Structures and Algorithms for DS/AI) [Spring 2024], Dev Team for Aerospace and Aeronautics System Society (AESS)