

# SAHIL SHAIKH

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## EDUCATION

### Purdue University

*Bachelor of Science, Computer Science, Data Science*

**Aug 2022 - Dec 2025**

*West Lafayette, IN*

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

## SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, SQL, Move, Rust, Go, Solidity
- **Tools and Technologies:** Scikit Learn, PyTorch, React Native, OpenCV, Agile, Docker, Rest APIs

## EXPERIENCE

### Synq

*Co-founder, CTO*

**May 2025 - Present**

*https://synq.website*

- Creating a devOps platform that provides line-based visibility to software teams, making merge conflicts predictable and preventable; bootstrapped, private beta (10 MAU).
- Built a custom VCS, enabling file syncs (pulls/pushes) in Go with the backend in Python (FastAPI), 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 end-to-end 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, allowing scalable off-chain storage while still providing cryptographic integrity checks on-chain.

### Purdue University

**Jan 2025 - Aug 2025**

*Undergraduate Teaching Assistant*

*West Lafayette, IN*

- Graded assignments, proctored exams, led review sessions, and substituted for lectures in CS 251 (Data Structures & Algorithms, ~45 students) and CS 253 (DSA for Data Science/AI, ~60 students).
- Held weekly office hours to help students with projects and homework, reinforcing algorithmic concepts and coding in Java/Python.

## 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.

### 4x 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)
- Built tmap, an on-chain social app that tokenizes real-world food experiences into collectibles, winning 2nd place in the Base Track at the Midwest Blockchain Conference Hackathon '25. (December)