

KAUSTUBH SONAWANE

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EDUCATION

The University of Texas at Austin	Bachelor of Computer Science, Computer Science Honors	May 2026
	Bachelor of Business Administration, Canfield Business Honors Program	GPA: 3.91

TECHNICAL SKILLS

AI & Machine Learning: PyTorch, Langchain, Pinecone, RAG, PySpark, MCP Servers, Neural Networks, Pandas, NumPy, Scikit-Learn, OpenCV, SQL
Languages & Libraries: Java, Python, C, C++, R, Rust, Solidity, Node.js, React, AWS (Lambda, EC2, RDS, S3), Linux, CUDA, MongoDB, Kubernetes
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture, Big Data Systems, Virtualization, NLP

WORK EXPERIENCE

Amazon – Software Development Engineer Intern Summer 2025

JusticeText & True Ventures Fellowship – Software Engineering Intern June 2024 – August 2024

Seed-stage startup building an AI platform for underfunded public defenders to efficiently review police bodycam footage

- Launched a multi-user collaborative notebook for annotating bodycam footage with **AWS, MongoDB & Socket.IO** used by **500+ attorneys** weekly
- Developed a Computer Vision facial identification overlay with **OpenCV and AWS Rekognition** to monitor personas across multiple clips
- Presented to the True Ventures Partnership on **multisensory interactions** with AI & the **future of Generative AI agents**

Wager Inc – Chief Technical Officer and Cofounder October 2022 – April 2024

Startup developing a Web3 peer-to-peer social betting platform for any event

- Invented the bet-making capabilities and user flow for the Wager app using **Solidity & Web3.js** for **smart contract development**
- Built a cross-platform **AWS DynamoDB & AppSync backend** for a one-click betting experience from a mobile and web application
- Invited to the **Solana Breakpoint Conference** in Lisbon, Portugal and the **Consensus Demo Day** in Austin, TX to present to industry leaders

Federal Reserve Bank – National IT Intern June 2023 – August 2023

National bank of the United States managing cash flow across 12 districts and 10,000+ financial institutions

- Restructured the dataflow of **multiple GovCloud datacenters** linked to systemwide endpoints to reduce branch-wide **operational costs by 70%**
- Enhanced the data analytics capabilities for systems tracking of **5000+ devices** using **Tableau, Power BI, and Visual Basic**

PROJECTS

Apollo: A Self-Completing Todo List

- Engineered a full-stack application to complete **semantic-input tasks** in Google apps and Notion using **Generative AI Agents & function calling**
- Selected optimal agents with a **cosine-similarity algorithm** and used an **orchestrator agent and token passing** to coordinate multi-agent flows

Scribe: A Generative AI Note-Taking Platform

- Constructed a study platform for **semantic queries** on aggregated student notes via **Pinecone vector servers & the ada-002 embeddings model**
- Architected an **AWS Lambda and API Gateway** cloud backend for processing scalable requests in conjunction with a **React** frontend

LungStat: Improving Lung Cancer Diagnostic Accuracy through Computer Vision

- Created a full-stack **CNN & RNN-LSTM ensemble** learning application for locating lung cancer tumors on a 3D CT scan at a **93% accuracy**
- Published a 10-page research paper & presented at several international conferences to researchers from **MIT, Vanderbilt, and UCLA**

LEADERSHIP EXPERIENCE AND ACTIVITIES

Texas Product Engineering Organization (TPEO) – Projects Director

Premiere University of Texas student organization contracting projects from local Austin businesses and nonprofit organizations

- Partnered with Austin-area nonprofits such as TreeFolks & Keep Austin Fed and coordinated **impactful full-stack software projects**
- Taught a 10-week product management course covering design-thinking, **product execution**, metric analysis, & user testing
- Led a team of designers and engineers as a **Product Manager** over 14 weeks to construct an art gallery solution for an Austin-area nonprofit

TutorScope – Cofounder and Director

Nonprofit organization offering free online tutoring for students of all ages across the world

- Directed student registration, tutor signup, and session scheduling for **3000+ students** across **thousands of hours** of tutoring
- Featured on **AP News, the Washington Post**, and recognized by House of Representatives as a **Hometown Hero** of District 3 of Texas

HONORS

- Convergent x Entrepreneur First Hackathon Winner (1/30+ projects): *Invited to the EF Selection Summit in San Francisco* January 2024
- HackMIT Final Round Qualifier (12/250+ projects): *Developed a Full-stack Generative AI Educational Platform (Scribe)* September 2023
- Hack TX 1st Place Blockchain Track Project (1/120 projects): *\$7000 Grand Prize from Solana & Sponsored Trip to Lisbon* October 2022

ADDITIONAL INFORMATION

Activities: Texas Product Engineering Organization, Computer Science & Business Association, Noteworthy A Cappella, Texas Ballroom

Interests: Inference Serving, Agentic Infrastructure & Coordination, Intuitive Product Design, Distance Running, Solo Traveling, Electric Guitar