

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

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture, Statistics & Data Science, Virtualization

Languages & Libraries: Java, Python, C, C++, R, Rust, Solidity, Node.js, React, Flask, PyTorch, Keras/Tensorflow, NumPy, Pandas, Scikit-Learn

Other Software/Tools: AWS, Jupyter Notebooks, Azure, RStudio, Github, Linux, MS Word/Excel, VBA, Power BI, Tableau

EXPERIENCE

JusticeText & True Ventures Fellowship - Software Engineering Intern Summer 2024
Seed-stage startup building an AI platform for public defenders to efficiently review police bodycam footage

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

- Led the migration of the End User Services team servers to the **Azure Cloud** using **Powershell** and **Power Automate**
- Restructured the dataflow of multiple datacenters linked to **systemwide endpoints** to reduce hardware operational costs by **70%**
- Enhanced the data analytics capabilities for systems tracking of **5000+ devices** using **Tableau**, **Power BI**, and **Visual Basic**

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 serverless 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**

Fiveable Inc - Product Operations Associate May 2021 – June 2022
Series A startup building a student-led educational platform for AP test preparation content and private virtual study rooms

- Enhanced project communication efficiency by **60%** by overseeing a **company-wide migration** to a new project management platform
- Managed education company partnerships for the nationwide Summer College Program with **4000+ student participants** across the US
- Collaborated with the **COO** and **CEO** to pivot the company focus from AP exam content to facilitating student discussion groups

PROJECTS

Apollo: A Self-Completing Todo List

- Engineered a full-stack application to complete semantic-input tasks using **multiple generative AI agents** selected with a **cosine-similarity algorithm**

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.js** 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**
- Communicated project applications at several international conferences to researchers from **MIT**, **Vanderbilt**, and **UCLA**
- Published a 10-page research paper to JMEI Conference Proceedings and **awarded by INSPOScience** and **GENIUS Olympiad**

LEADERSHIP EXPERIENCE AND ACTIVITIES

Texas Product Engineering Organization (TPEO) – Projects Director August 2022 - Present
Premiere University of Texas student organization contracting projects from local Austin businesses and nonprofit organizations

- 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 March 2020 - May 2022
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: Systems Development, Full-Stack Development, AI & Machine Learning, Generative AI Agents, Cloud Architecture, Running