

# 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, Azure, RStudio, GitHub, Linux, MS Word/Excel, VBA, Power BI, Tableau, Mocha, Jest, Socket.IO

## EXPERIENCE

**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 **MongoDB & Socket.IO** used by **300+ attorneys weekly**  
• Presented to the True Ventures Partnership on accessible no-code development tools & **the future of Generative AI agents**

**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 branch-wide 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 Co-founder** 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

## 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**  
• 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** 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 – Co-founder 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 1<sup>st</sup> 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, Distance Running