# **KAUSTUBH SONAWANE**

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**EDUCATION** 

The University of Texas at Austin

Bachelor of Computer Science, Computer Science Honors

Bachelor of Business Administration, Canfield Business Honors Program

GPA: 3.91

**EXPERIENCE** 

**True Ventures/Justice Text -** *Software Engineering Intern / True Fellow* 

Summer 2024

### 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 - Present

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**

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

# OpenPulse: An Accessible Wristband for Atrial Fibrillation Detection

- Built an accessible real-time machine-learning wristband for arrhythmia and atrial fibrillation detection with a \$30 manufacturing cost
- Fused an Arduino circuit with a Scikit-learn SVM and ARIMA model at a 90% diagnostic and 75% predictive accuracy in a 3D printed shell

## 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 ACTIVITES**

### Texas Product Engineering Organization (TPEO) - Product Management Lead

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 launch an art gallery solution for the Bee Cave Arts Foundation

# **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 2023

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

# **TECHNICAL SKILLS AND ACTIVITIES**

Languages & Libraries: Java, Python, C, C++, R, Rust, Solidity, Node.js, React, Flask, PyTorch, Tensorflow/Keras, NumPy, Pandas, Scikit-Learn Other Software/Tools: Power BI, Tableau, AWS, Azure, RStudio, Github, Linux, MS Word/Excel, VBA

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture, Statistics & Data Science, Virtualization Activities: Texas Product Engineering Organization (TPEO), Computer Science & Business Association (CSBA), Noteworthy A Cappella Interests: Systems Engineering, Full-Stack Development, AI & Machine Learning, LLMs, Cloud Architecture, Blockchain & Crypto