

# Isaac Chacko

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## EDUCATION

### Texas A&M University, Engineering Honors

College Station, TX

B.S. Computer Science, Applied Mathematics.

May 2027

- Relevant Coursework: Data Structures & Algorithms, Computer Organization, Real Analysis.
- Awards: National Merit Winner, Texas A&M President's Endowed Scholar, Dean's Honor Roll.

## EXPERIENCE

### University Representative

December 2025 – Present

Lockheed Martin Ethics in Engineering Competition

Bethesda, MD

- **1 of 4** students representing Texas A&M University in Lockheed Martin's national engineering ethics case competition, featuring teams from **70+** universities across the nation.
- Coordinated with a 6-person prep team, along with relevant professors, researchers, and mentors, to break down the technical, legal, and ethical dimensions of the case study to create a ethical and practical solution.

### Logistics Director

October 2025 – Present

tidalTAMU

College Station, TX

- Spearheaded one of Texas A&M's largest student-run hackathons, overseeing end-to-end logistics and securing sponsorships/venue support for **300+** hackers, sponsors, and mentors.
- Designed and deployed the TIDALHack 2025 live site and custom judging platform, enabling real-time scheduling, announcements, and project evaluation across dozens of concurrent submissions.
- Coordinated sponsor-led workshops, technical talks, and mentorship blocks while directing judges and volunteers with clear run-of-show instructions to keep a 24-hour event running smoothly.

### Undergraduate Teaching Assistant

August 2025 – Present

Texas A&M Department of Computer Science

College Station, TX

- Developed critical plagiarism software as a part of the plagiarism subteam to verify **600+** student submissions using C++ fingerprinting algorithms and AI detection software.

### Backend Engineer

May 2025 – August 2025

SISO Engineering

Houston, TX

- Engineered query optimizations to cut **300 million** row query run times by **73%** and improved real-time streaming scalability across **40+** international edge devices.
- Blew the whistle and saved **1.7 million** records of streaming data via preventative data validation measures.
- Created infrastructure-as-code with Terraform to allow for rapid deployment/provisioning of Grafana workspaces and Azure database resources to standardize operations for present and future customers.

## PROJECTS

### Fold Forge AI | TypeScript, Tailwind CSS, Gemini, MCP Servers

November 2025

- Placed top 5 at HackUTD 2025, the largest 24-hour university hackathon in North America.
- Reduced drug discovery analysis from “month-long experiment design + review cycles” to an interactive 10 second workflow by chaining tool-calling agents over molecular structures and protein-ligand interactions.
- Prioritized **3 million** research papers to 20 high-quality, relevant studies in a single pass, using automated relevance ranking and agentic orchestration to compress what is typically weeks of manual reading into minutes.

### Presentation Coach | Python, React, NextJS

September 2024

- Won HowdyHack 2024 by building a analytics tool to track and visualize real-time audience retention, empowering presenters with actionable feedback on engagement.
- Leveraged machine vision and speech vectorization to analyze the slide deck and speaker delivery, surfacing key insights under time constraints.

## TECHNICAL SKILLS

**Web Development:** React, NextJS, Vite, Django, Flask, Express, Sockets, Tailwind CSS, Composer, TypeScript

**Data Systems:** PostgreSQL, KQL, MSSMS, Redis, Prisma, MongoDB, Neo4j, ADX, Grafana, PowerBI, DevOps

**Backend Infrastructure:** Arch Linux, Terraform, Docker, Kubernetes, AWS EC2, C++, Python