

# Ryan Kabir

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## EDUCATION

### Texas A&M University

*Bachelor of Science in Computer Science and Electrical Engineering*  
*Minors in Cybersecurity and Statistics*

**August 2021 – May 2025**

*College Station, TX*  
*Dean's Honor Roll*

## TECHNICAL SKILLS

**Languages:** C, C++, Python, C#, JavaScript, HTML, CSS, R, MATLAB, Dart

**Technologies and Frameworks:** TensorFlow, Keras, .Net, AWS, REST APIs, Google Cloud APIs, pandas, NumPy, Matplotlib, Selenium, React, Node, Flask, SciPy, Unix/Linux, Git, Firebase, SQL, PostgreSQL, MongoDB, Flutter, Elasticsearch, Azure

## EXPERIENCE

### Johns Hopkins University Applied Physics Laboratory (JHUAPL)

**June 2023 – Present**

*Software Engineering Intern (Machine Learning and Cyber-Physical Systems Team)*

*Laurel, MD*

- Champion the implementation of **machine learning** anomaly detection for **100,000+** collision simulation runtimes utilizing **Elastic ML** and **Python**, reducing average response time to critical system failures from **24 hrs** to **2 hrs**
- Create **Python and Bash Scripts** to automate real-time data visualization from **100,000+** hovercraft collision simulations utilizing **Elasticsearch REST API** and **Kibana**, saving **200+ hours** of manual data analysis per month

### Texas A&M University Department of Engineering

**May 2022 – Present**

*Head Undergraduate Teaching Assistant*

*College Station, TX*

- Lead **8** sections of the Python Computation and Physics Mechanics Laboratory Courses by aiding **2500+** students in coursework twice per week driving an increase in median exam performance for **70%** of students across midterms

### Frogslayer (Custom Software Development Company)

**June 2023 – September 2023**

*Software Engineering Intern*

*College Station, TX*

- Engineered **5 REST API** endpoints using **C#** and **ASP.Net Core Framework** implementing **mediator design pattern** and seamless integration with **PostgreSQL**, driving up to **25% decreases** in bug resolution times for user queries
- Developed robust multi-input textbox widget in **Flutter**, unlocking capabilities for **6** file type inputs reducing the likelihood of errors upon file entry and expanding input file-type diversity by **600%**
- Collaborated on cross-functional **Agile** teams on enterprise-grade full-stack app development via **Azure DevOps** and **Jira** to coordinate **CI/CD** workflows, achieving **20%** faster development cycles across multiple **2-week** sprints

### Paycom

**July 2023**

*Technology Summer Engagement Program Intern*

*Oklahoma City, OK*

- Built collaborative software projects utilizing **PHP**, **React**, **Swift**, **C#**, **Docker**, **Azure DevOps**, and **application security** including developing a **SQL Injection-proof** login to safeguard user data and an Instagram clone in **SwiftUI**

### LeetCode (Data Structures & Algorithms Workshop)

**August 2022 – May 2023**

*Program Manager*

*College Station, TX*

- Led a weekly workshop teaching **100+ Data Structures and Algorithms** concepts in **Python** and **C++** utilizing LeetCode problems to a group of **~120 students** responsible for **6.5 times** more internship offers in the cohort

## PROJECTS

**AI-ggie News** | Python (TensorFlow Recommenders, Flask, Selenium), JavaScript, HTML, CSS

**2022**

- Created a website with a **TensorFlow Recommenders machine learning** recommendation system in **Python** trained on **1000+** Texas A&M news articles servicing **2300+** students from **130+** majors and interest groups
- Integrated a one-tap login via **Google Identity Services SDK** contributing to a **90%** decrease in average login time

## LEADERSHIP

**Engineering TA Organization (TAO)** | *President and Founder*

**August 2022 – Present**

**Aggie Competitive Programming Club** | *Vice President and Logistics Chair*

**August 2022 – Present**

**Aggie Coding Club** | *Officer and Webmaster*

**August 2022 – Present**