Ryan Kabir

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EDUCATION

Texas A&M University **August 2021 – Dec 2025**
Bachelor of Science in Computer Science and Electrical Engineering *College Station, TX*
Minors in Cybersecurity and Statistics *Dean's Honor Roll*

TECHNICAL SKILLS

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

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

EXPERIENCE

Microsoft **May 2024 – Present**
Software Engineering Intern *Redmond, WA*

- Strengthen end-to-end (E2E) code coverage across system by over **90%** by creating a Trace Provider using **C#**, **.NET**, and **OpenTelemetry**, introducing granular log outputs for **7000+** previously untested code paths
- Minimize cost of goods sold by up to **$65K** per month by developing a switch implementation for verbose logging with **Microsoft Test Framework**, ensuring detailed logging for E2E tests without impacting production logs
- Reduce log indexing time-complexity from **O(n)** to **O(1)** by refactoring trace outputs with a singleton multi-thread safe dictionary, ensuring concurrent operation consistency and cutting incident response times by up to **60%**

Johns Hopkins University Applied Physics Laboratory (JHUAPL) **June 2023 – April 2024**
Software Engineering Intern (Machine Learning and Cyber-Physical Systems Team) *Laurel, MD*

- Championed 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**
- Created **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 – Dec 2023**
Head Undergraduate Teaching Assistant *College Station, TX*

- Led **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 Instagram clone in **Swift**, **Vapor**, and **SwiftUI**, integrating a **SQL-Injection-proof** login to safeguard user data

LEADERSHIP & 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

Engineering TA Organization (TAO) | *President and Founder* **August 2022 – Present**

Aggie Competitive Programming Club | *Vice President and Logistics Chair* **August 2022 – Present**