

Hezekiah Gitenyi

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EDUCATION

Texas A&M University

College Station, Texas

Bachelor of Science in Computer Science

May 2028

- **Relevant Coursework:** Data Structures & Algorithms, Discrete Structures for Computing, Multivariable Calculus

EXPERIENCE

TAMUHack

College Station, Texas

Technical Director

March 2026 – Present

- Developed responsive frontend components for the HowdyHack 2026 website attracting **20K+ visitors** for one of Texas's largest student-run hackathons (**800+ attendees**), building with Next.js, Astro, GSAP, and Figma
- Maintained open-source Django registration backend serving 5K+ users for Texas A&M hackathons

Sustain Hope

Wylie, Texas

Backend Developer

August 2022 – May 2025

- Enabled **\$15,000 USD** in secure online donations by integrating Stripe's payment API into the organization's donation platform, expanding donor reach globally
- Developed and maintained **sustainhope.net**, supporting scholarship application workflows that helped sponsor **20+ girls** through secondary education in Kenyan communities

PERSONAL PROJECTS

Formula 1 Tire Efficiency Analysis

Scikit, FastF1, Pandas, NumPy

- Trained an XGBoost regressor on tire age, lap number, compound, and track conditions using race-grouped cross-validation (**GroupKFold**, $n=5$) to prevent data leakage across events.
- Backtested against a 10-race holdout by simulating full stint sequences with a **22-second pit-loss** penalty, predicting total race time within **1.2% (89.8s MAE)** of actual outcomes.

TAMU Guessr

Next.js, React, JavaScript, Google Maps API

- Placed 2nd at HowdyHack building TAMU Guessr, a GeoGuessr-inspired campus geography game that scaled to **1,500+ players**, helping students discover hangout spots and interest-based communities across Texas A&M's 5,000-acre campus
- Architected the frontend with Next.js and React, integrating the Google Maps Street View API to drop players into randomized campus locations

LEADERSHIP & INVOLVEMENT

Texas A&M College of Engineering

College Station, Texas

Teaching Assistant

August 2026 – Present

- Facilitated instruction for **100+** engineering students in Python-based programming fundamentals, including control structures, functions, and array/matrix manipulation for engineering applications
- Graded and provided feedback on programming assignments and a team-based capstone project, helping students debug logic errors and improve code structure

VEX Robotics

Greenville, Texas

Lead Software Developer

August 2022 – May 2025

- Engineered a multi-sensor autonomous routine combining dual distance sensors and inertial-based heading correction to navigate and avoid wall collisions, achieving a **70%** successful scoring rate across autonomous runs
- Designed single-button macro controls mapping intake and hook activation to a single input for High Stakes, streamlining scoring cycles during driver-controlled matches

SKILLS, ACTIVITIES & INTERESTS

Languages: Python, C++, HTML, CSS, SQL, JavaScript, TypeScript

Frameworks/Libraries: Scikit, React, Next.js, Django, Astro, Pandas, NumPy, Matplotlib, GSAP

Tools: Git, GitHub

Activities: Freshman Reaching Excellence in Engineering, National Society of Black Engineers, TAMUHack