

# Akhil Kasamsetty

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## EDUCATION

### Texas A&M University

May 2028

*Bachelor of Science in Computer Science*

*GPA: 4.00*

**Relevant Coursework:** Engineering Lab I - Computation (Intro to Python), Experimental Physics and Engineering Lab II - Mechanics, Program Design and Concepts (Intro to C++)

## EXPERIENCE

### Webmaster/Robotics Engineer

Aug. 2024 – Present

*Aggie Robotics - VEXU Team WHOOP*

*College Station, TX*

- Designed 10+ autonomous routes to position the robot and pick up and place items during matches.
- Implemented robot routes using C++ and the PROS VEX library to integrate with a motion sensor, optical sensor, IMU gyroscope sensors, and through bore encoders for robot localization and game strategy.
- Designed and built processor mount and clamping mechanism hardware using Autodesk Fusion 360.
- Team Accomplishments: Excellence Award and Robot Skills Champion @ Texas VEXU Robotics Competition, Energy Award, #2 Seed, and Top 8 Teams in Math Division @ 2025 VEX Robotics World Championship

### Lead Python Curriculum Officer

Aug. 2023 – May 2024

*AIFA - AI For All*

*Plano, TX*

- Led a team of 6 officers to create educational slideshows teaching Python to students at various high schools.
- Hosted an AI-based hackathon with 150+ participants at the *University of Texas at Dallas*.

### Vice President/ Team Captain

May 2021 – May 2024

*Plano West Robotics - FTC Teams 14523, 12977*

*Plano, TX*

- Led a team of 10+ engineers to design robot architecture and components in Autodesk Fusion 360.
- Increased development speed by 40% by implementing team meetings and adding a Kanban board to track tasks.
- Hosted 10+ workshops and scrimmages for 1500+ people to help promote STEM throughout the community.
- Team Accomplishments: Inspire Award 2nd @ F&E Qualifier, Finalist Alliance @ Texas UIL State Championship.

### Webmaster/Computer Science Tutor

Feb. 2023 – Oct. 2023

*Bloom Institute*

*Virtual*

- Managed the website of an organization that hosts free year-round virtual classes for 200+ students.
- Designed and restructured website using WordPress to improve the layout and user experience.
- Tutored 50+ students in Python for a weekly class over the summer.

## PROJECTS

### SecureSimple

Nov. 2024 – Nov. 2024

- Worked with a team of 4 to design an electronic security system with an alarm and activation system in Multisim.
- Won 2nd Place in the SEC Ignite Design Challenge Electrical Engineering category.
- Created project report and video presentation on electronic security systems and our proposed product.

### Legal AI Assistant | [https://github.com/akhilk999/Legal-AI-Assistant\\_backend](https://github.com/akhilk999/Legal-AI-Assistant_backend)

Jun. 2024 – Aug. 2024

- Developed data extractor for Indian legal case file PDFs using Python and OpenAI API.
- Designed and implemented 4+ complete app wireframes using Figma and Flutter.

### FooDono | <https://github.com/akhilk999/FooDono>

Aug. 2020 – Dec. 2020

- Developed a mobile app to connect food banks to their visitors using Flutter, Firebase, and the Google Maps API.
- Won Honorable Mention in the Congressional App Challenge TX District 3.
- Added support for food banks to post available time slots and visitors to sign up for them, reducing overcrowding.

## TECHNICAL SKILLS

**Languages:** Java, Python, Dart, C++, C#, SQL (Postgres), JavaScript, HTML, CSS

**Frameworks:** Flutter, Next.js, Tailwind CSS, WordPress, Material-UI, Bootstrap

**Developer Tools:** Git, AWS, Figma, Android Studio, VS Code, TeXLive

**Libraries:** NumPy, Matplotlib, Pandas, React