Akhil Kasamsetty

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EDUCATION

Texas A&M University — May 2028
Bachelor of Science in Computer Science — *GPA: 4.00*
Relevant Coursework: Intro to Python, Program Design and Concepts (Intro to C++), Discrete Structures, Linear Algebra, Data Structures & Algorithms

EXPERIENCE

Software Engineering Intern — Jun. 2025 – Present
KonfHub — *Virtual*
- Developed AI-based event poster and description generator using **AWS Bedrock** in **Python**

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
- Designed 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* — 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 visitors using **Flutter**, **Firebase**, and **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, Flask, WordPress, Material-UI, Bootstrap
Developer Tools: Git, AWS/AWS Bedrock, Postman, Figma, Android Studio, VS Code, TeXLive
Libraries: NumPy, Matplotlib, Pandas, React
Misc: Prompt Engineering