

# Keshav Anand

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## Education

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### Plano East Senior High School, Plano

August 2023 – May 2027

- GPA: 4.78571/4.0, Unweighted: 4.0/4.0, Class Rank: **2/1255** ([View Unofficial Transcript](#) 📄)
- **Current Coursework:** AP Chemistry, American Studies (AP US History + AP English Language), Digital Electronics, AP Physics I, Differential Equations (via Collin College)
- SAT: 1550/1600 — Reading 760/800, Maths 790/800
- ACT: 36/36 — Maths 36, Reading 36, Science 36, English 35

## Key Projects and Work

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### GaitGuardian: IMU Processing for Parkinson's Disease (2024-Present)

[Project Portfolio](#) 📄

- Constructed novel hybrid biLSTM + CNN architecture for Freezing of Gait prediction
- Signal processing and segmentation to reduce subject-dependence
- State-of-the-art metric performance while being end-to-end functional

### FTC Technical Turbulence Lead Software Developer (2023-Present)

[2025-26 Git Repo](#) 📄

- Custom inverse kinematics pathing and Computer Vision for Autonomous Navigation
- World **top-30** FTC team for autonomous software, TX State Finalist

### Full Time Linux Self-Hosted Server (Nov. 2025-Present)

[Server Start Page](#) 📄

- Repurposed old \$35 chromebook into a full time Ubuntu server to host services
- Hosting Nginx Websites, Git Server, SSH Server, Cinny Messaging, Immich Photo Backup, and more

### Terminal GUI Portfolio Shell (Sep. 2025-Jan. 2026)

[Portfolio + Code](#) 📄

- FTXUI-based C++ Terminal Shell with **no auth**, fully hardened

### TEG Powered Self-Stirring Device (2023-2024)

[Project Portfolio](#) 📄

- Built novel prototype to harvest thermal energy for automatic stirring while cooking

## Awards and Honors

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### Thermoelectric Generator Research Project

2024

- Dallas Fair: 1st in Engineering, US Air Force Recognition, USMA Best SI Units
- **International Science and Engineering Fair (ISEF) Finalist**

### GaitGuardian: ML and Signal Processing for PD Research

2025

- Dallas Fair: 1st in Systems Software, **Grand Prize** Runner-Up, TI Best Computing Project 2nd
- ISEF Finalist, **ISEF 3rd in Robotics and Intelligent Systems** (\$1200)

### FTC Technical Turbulence, State Division Finalist, Control Award Winner

2024-25

## Skills

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**Programming Languages:** Java, Python, C++, Bash, Rust (Limited), Javascript

**Programming Applications:** Machine Learning, Server Backend, Linux, Networking and Security

**Miscellaneous:** Public Speaking, CAD, PCB Design, Electrical, Competition Math

## Other Miscellaneous Activities

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**Vice President, LASER:** Guiding and instructing 120+ students for Science Fair

**Founder, Cricket Club:** Formed and captained Plano East's first cricket team

**Technology Director, NHS:** Coded and maintained React-based portal for largest NHS chapter in the US