

Keshav Anand

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Education

Plano East Senior High School, Plano, TX

August 2023 – May 2027

- GPA: 4.82352/4.0, Unweighted: 4.0/4.0, Class Rank: **1/1227** ([View Unofficial Transcript](#) 📄)
- **Current Coursework:** AP Biology, AP Govt., AP Physics C, AP Comp. Sci. A, AP Statistics
- **Other Relevant Coursework:** Calculus III, Differential Equations, AP Chemistry, Digital Electronics
- **SAT 1550/1600:** Reading 760, Maths 790; **ACT 36/36:** Maths 36, Reading 36, Science 36, English 35

Experience

Computer Science Intern

Dayton, Ohio

Air Force Research Laboratory (AFRL)

June 2026 – July 2026

- Developed a high-fidelity VR simulation at the 711th Human Performance Wing for cognitive-modeling research on auditory-guided visual detection of Class 1 sUAS
- Engineered C++ backend infrastructure in Unreal Engine for dynamic data handling and configuration
- Built and optimized immersive visual and auditory environments for performance on consumer-grade GPUs

Lead Software Developer and Co-Captain

Plano, TX

Technical Turbulence FTC

June 2023 – June 2026

- Co-founded and built the team's software as primary programmer, later serving as Software Lead
- Developed custom autonomous navigation integrating inverse kinematics, odometry, and computer vision
- Engineered custom driver-assistance systems using sensor feedback and control algorithms for consistency

Key Projects

GaitGuardian: ML for Parkinson's Disease (2024 – 2026)

[Project Portfolio](#) 📄

- Constructed novel hybrid biLSTM + CNN architecture for Freezing of Gait prediction
- Fabricated custom PCB and wrote low-level C++ code for optimized signal processing → high metrics

Full-Time Linux Server (Nov. 2025 – Present)

[Server Status Page](#) 📄

- Repurposed old \$35 chromebook into a full time Ubuntu server to host services
- Hosting Static HTML, Git Server, SSH Server, Cinny Messaging, Local DNS Server, and more

TUI Developer Portfolio (Sep. 2025 – Jan. 2026)

[ssh portfolio@keshavanand.net](ssh:portfolio@keshavanand.net) 📄

- Built an FTXUI-based C++ terminal portfolio, deployed 24/7 as a **public, no-auth SSH application**
- Hardened a public SSH endpoint with a restricted account and forced execution; logged **1M+ attacks**

Awards and Honors

- **ISEF 3rd Place, Robotics and Intelligent Systems** (\$1200) [2025]
- 2x International Science and Engineering Fair (**ISEF**) **Finalist** [2024, 2025]
- 2x Dallas Science Fair 1st Place, Grand Prize Runner-Up, TI Best Computing Project [2025]
- FTC State Division Finalist, Michiana Control Award Winner, **Global Top-30 Autonomous** [2023 – 2025]

Skills

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

Technologies: Machine Learning, Networking and Security, Git, Unreal Engine

Miscellaneous: Public Speaking, CAD, PCB Design, L^AT_EX, Competition Math

Other Activities

Tamil Music: Keyboard and Bass Guitar Player; Member of High Octavez Charity Band

Founder, PESH Cricket Club: Led school team and organized inter-school matches within the Dallas Metroplex

Technology Officer, NHS: Developing and maintaining full-stack hours portal for largest NHS chapter in the US