

# Krishnan Shankar

He/Him

HS Senior @ TJHSST

✉ [krishnans2006@gmail.com](mailto:krishnans2006@gmail.com)

☎ 703-559-0131

📍 6862 McLean Province Cir, Falls Church, VA 22043

🏠 School: 6560 Braddock Rd, Alexandria, VA 22312

🌐 [linkedin.com/in/krishnan-shankar](https://linkedin.com/in/krishnan-shankar)

🐙 [github.com/krishnans2006](https://github.com/krishnans2006)

🔗 [krishnan.web.app](https://krishnan.web.app)

## SKILLS

- Full Stack Web Development
  - HTML/CSS/JavaScript, React, **Svelte**/SvelteKit
  - Python Flask, **Django**, & FastAPI, Node JS
  - MySQL/PostgreSQL/SQLite, Firebase
- Math/Data Science: **Python**, Numpy
- AI/ML: Neural Networks, Tensorflow, PyTorch
- Development Tools: **Git** + GitHub/GitLab, **Linux**, Raspberry Pi, JetBrains, AWS/GCP/Heroku

## EDUCATION

Current **Senior** (2024) at Thomas Jefferson High School for Science and Technology (TJHSST)

- Current GPA (Weighted): **4.467/4**
- Intended Major: Computer Engineering
  - Job Goal: Telecommunications, Robotics or AI
  - Job Availability: June 17th - August 9th, 2024
- Relevant Courses:
  - 2024: Machine Learning, Multivariable Calculus, Engineering Research
  - 2023: Artificial Intelligence, 2x Robotics, 2x Electronics, BC Calculus
  - 2022: AP Computer Science A+
- Test Scores:
  - PSAT: 1480 (10/2021), **1500/1520** (10/2022)
  - SAT: 1530 (8/2022), **1560/1600** (3/2023)
  - ACT: **36/36** (10/2022)

## ACCOMPLISHMENTS

- 2x Gold President's Volunteer Service Award: For volunteering 100+ hours (2021, 2022)
- National Honor Society Member (2022-2023)
- 6x Hackathon Winner, 20x Participant ([Devpost](#))
- Science Olympiad: 5+ Lifetime 1st Place Medals

## HOBBIES

- Martial Arts: Black Belt after training 8+ years
- Avid Chess Player and Swimmer

## EXPERIENCE

### The MITRE Corporation - *Student Researcher*

JUN 2023 - PRESENT

- Automated creating, configuring, and testing characteristics of complex 5G network simulations.
- Used this to research the effectiveness of methods for integrating non-5G devices with 5G core infrastructure.

### TJ Computer Systems Lab (CSL) - *Lead Sysadmin*

JUN 2021 - PRESENT

- Managing and adding to the [TJ Intranet](#), a school-wide hub used for club signups, free printing, bus spots, etc.
- Developing and currently responsible for [Turn-In](#), a site used by every computer science class at TJ to automate collecting and grading student code submissions.
- Configured and responsible for a high-availability, 3x-replicated network filesystem used by students and teachers to store their files. Migrated all data and services to the new filesystem for reliability and speed.

### TJ Unmanned Aerial Vehicle - *Club President*

FEB 2021 - PRESENT

- Leading a team competing in a [college competition](#).
- Designed and integrated a communications system using three different radios and frequencies for safe and reliable flight control and fast image transfer.
- Developed a [GroundStation](#) (Python Flask, React) from scratch to monitor, control, and process the above.

### HackTJ - *Technical Lead*

JUN 2021 - PRESENT

- The original largest HS hackathon with 400+ hackers.
- Maintaining the organization's [website](#) (Svelte).
- Developing a judging system (Python Flask, Firestore) from scratch to judge and evaluate projects fairly.

### HackAlphaX - *Technical Lead, Operations Lead*

DEC 2020 - PRESENT

- Developed the organization's [website](#) (Python Flask, HTML/CSS/JS, Firestore) from scratch.