

# JOVAN YOSHIOKA

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## OBJECTIVE

To develop my computer science skills and grow as an individual through a rigorous internship opportunity. I hope to be able to demonstrate my current understanding of computer science while also learning new skills. I have a strong passion for problem solving and creating software programs.

## NOTABLE ACTIVITIES

### HVA RoHAWKtics 2016 - PRESENT

The HVA RoHAWKtics is a team that participates in the FIRST Robotics Competition (FRC) where an industry-sized robot is constructed from scratch in six weeks within a restricted budget.

#### Mentor (2020-Present):

- In my free time, I teach high school students about programming and electronics.

#### Executive Captain (2019-2020):

- Managed a team of over forty-five students and adult mentors.
- Organized and led team meetings, and ensured subteams were working efficiently.

#### Programming Captain (2017-2020):

- Taught underclassmen how to program; oversaw the coding of my team's robot (Java).
- Discussed with others how a component should function and therefore be coded.

#### Volunteered to Spread STEM to the Community (Over Sixty Hours):

- Barnes & Nobles Maker Faire, STEM Camp, STEM Night, Independence Day Parade, etc

### FUTURE BUSINESS LEADERS OF AMERICA 2017 - 2020

FBLA is an organization that hosts several competitive events and educational conferences around the nation to prepare high school students for their future careers.

#### National Award Winner (2019 Coding and Programming Competitive Event):

- 1st Place at State level with a web app created from scratch by myself in three days.
- 1st Place at National level with a week of modifications to the same web app.

### OAK RIDGE NATIONAL LABORATORY INTERSHIP SUMMER OF 2019

ORNL is a federally funded national lab made up of STEM research and development programs.

#### National Household Travel Survey (NHTS):

- NHTS web app creates visual representations of survey data for federal agencies and other consumers to find trends in travel and improve the infrastructure in their areas.
- Resolved issues/bugs and developed key features like a custom variables system that allowed users to have query results tailored to their specific needs.
- Learned the dynamics of working in a professional environment.

## PROJECTS

### DRONE FLEET 2020 - PRESENT

A swarm of drones programmed to individually perform commands based on the body gestures of a person with vision processing using OpenCV, OpenPose, and Tello SDK in Python.

### VIRTUAL PORTFOLIO 2020 - PRESENT

A compilation of info about me, my latest activity, and my various projects, experiences, and awards. Coded from scratch in HTML, CSS, and JavaScript. (jovanyoshioka.com)

### MINECRAFT ASSASSIN PLUGIN SUMMER OF 2020

Allows players to place bounties and hire assassins to take out other players. The resulting paranoia creates a new level of excitement for all in-game. Coded in Java with Spigot API.

## EDUCATION

### UNIVERSITY OF TENNESSEE KNOXVILLE, TENNESSEE

Class of 2024

GPA: 4.0

**Major:** Computer Science | **Minor:** Mathematics | **Concentration:** Honors

**Courses:** Intro to Computer Science, Honors Physics for Engineers, Matrix Algebra

**Activities:** Hack4Impact, Chancellor's Honors Program, Cook Grand Challenge Honors Program

### HARDIN VALLEY ACADEMY KNOXVILLE, TENNESSEE

Graduated 2020 With Honors and Distinction

**STEM Academy Technology Endorsement:** Went above and beyond graduation requirements.

**Perfect Attendance:** Never late or absent, except for school-related activities, for four years.

GPA: 3.9429 / 4.4 (Weighted)

**AP Courses:** AP Computer Science Principles, AP Computer Science A, AP Physics C M, AP Calculus AB, AP Calculus BC, AP Literature & Composition, and three others...

**Extracurricular Activities:** FIRST Robotics Competition (HVA RoHAWKtics), FBLA, CodeTN, CyberPatriots, National Honor Society, National Technical Honor Society

## AWARDS & HONORS

### HARDIN VALLEY ACADEMY

**Bohr Award:** Most well-rounded STEM student at HVA.

**Sensational Hawk:** Featured on a special student spotlight.

**AP Scholar with Distinction:** Received an average score of at least 3.5 on all Advanced Placement (AP) Exams taken, and scores of 3 or higher on five or more of these exams.

### OAK RIDGE NATIONAL LABORATORY

**NEXTGENS Profile:** Featured on a special intern spotlight.

### FIRST ROBOTICS COMPETITION

**Dean's List Semi-Finalist:** Granted to two students per FRC team who show great leadership and dedication to the program.

**Outstanding Volunteer Award:** FLL volunteer whose dedication is seen as a positive and vital component to the competition's success.

**Chairman's Award (2020):** Most prestigious award in FRC. Recipient team is an example of what other teams should strive to be. Only team in Tennessee to receive this award twice.

**Chairman's Award (2017):** First team in TN to receive this award.

**Alliance Captain at Worlds:** 2nd seeded at the FIRST Championship, the highest any Tennessee team has ever reached.

### FUTURE BUSINESS LEADERS OF AMERICA

**1st Place at State and Nationals:** Best at conceptualizing, designing, coding, and presenting to panels of judges, and an audience in the finals, a dynamic app (Coding & Programming Competitive Event).

**2nd Place at Regional:** Excelled in Cyber Security Competitive Event.

### CODETN

**2nd Place:** Excelled in creating and presenting to a panel of judges and audience a web application that solves a school or community problem.

## SKILLS

- Programming Languages (e.g., Java, HTML5, CSS3, JavaScript, PHP, MySQL, C++, Python, C#, TypeScript, React, jQuery, Bootstrap, AngularJS)
- Object-Oriented Programming
- Software Development Life Cycle
- Data Structures and Algorithms
- Quick learner through hands-on experience
- Problem Solving
- Perseverance
- Teamwork
- Optimism
- Dedication
- Creativity