

# 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

### UTK EECS UNDERGRADUATE RESEARCH ASSISTANT 2021 - PRESENT

Working part-time, University of Tennessee Dept. of Electrical Engineering & Computer Science.

- Developing a block-based coding literacy maze tool (HTML, CSS, JS, Blockly).
- For schools that do not have dedicated computer science courses; allows K-5 teachers to integrate CS into their pre-existing curriculum, specifically in their ELA courses.
- Collaborating with local K-5 teachers. Attending weekly progression meetings.

### 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 over forty-five students and adult mentors. Organized and led meetings.

#### 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

### OAK RIDGE NATIONAL LABORATORY INTERNSHIP 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.

### HACK4IMPACT 2020 - PRESENT

Hack4Impact connects nonprofits to students interested in developing software for social good.

#### Developer (React, Sass) for MindVersity (Fall 2020) & Muse Knoxville (Spring 2021) Websites:

- MindVersity supports BIPOC mental health by creating a network of diverse students.
- Muse Knoxville is a children's museum promoting STEAM.

## 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 SUMMER 2020 - SPRING 2021

A website showcasing who I am. Coded from scratch in HTML, CSS, JS. (jovanyoshioka.com)

## EDUCATION

### UNIVERSITY OF TENNESSEE KNOXVILLE, TENNESSEE

Class of 2024

**GPA:** 4.0 | **Dean's List:** Fall 2020

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

**Courses:** Intro to Computer Science, Computer Organization, Matrix Algebra, Calculus III,

Honors Physics for Engineers, Chancellor's Honors Writing I and II

**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 app that solves a school/community problem.

## SKILLS

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