Jovan **Yoshioka**

jovanyoshioka.com · jovanyoshioka@gmail.com · (865) 360-6034
Knoxville, Tennessee · 37923

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).

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 and oversaw the coding of my team's robot.
- 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 Internship Summer of 2019

ORNL is a federally funded national laboratory that consists of several STEM-related 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 Summer of 2020

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

Major: Computer Science
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, jQuery, PHP, MySQL, C++, Bootstrap, Python, React, C#, AngularJS, TypeScript)
- Object-Oriented Programming (OOP)
- Software Development Life Cycle (SDLC)
- Quick learner through hands-on experience
- Problem Solving
- Perseverance
- Teamwork
- Optimism
- Dedication
- Creativity