
Tyler Duckworth

Student

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OBJECTIVE

In looking to prepare for my future, I hope to expose myself to emerging technologies and fields, such as supercomputing and machine learning, and further my understanding of how computing will impact the world.

SKILLS

- Various experience in managing a team to pursue a goal.
- Able to work well with others and pursue an objective.
- Experienced in various programming languages such as Java, Python, C++, HTML, CSS, etc.
- Proficient in many different digital design programs such as Autodesk Inventor, Solidworks, Adobe Illustrator, Adobe Photoshop, and Blender.

EXPERIENCE

L&N STEMpunks, Knoxville - *Programming Lead*

August 2016 - PRESENT

- Devised various CAD models and photorealistic renders of our 2018 robot, Q-Bit and our 2019 robot, Rosetta.
- Actively lead the Programming subteam to teach programming skills, create robot control code, and collaborate with other teams in the area.
- Assist other team members with learning different softwares and technologies as well as design processes.

CodeTN, Knoxville - *Project Lead, Frontend Programmer*

August 2017 - 2019

- Led a team in 2017 that created a dynamic web application called AllerGPS from scratch that used restaurant menu data to create an interactive map of allergy-friendly locations.

Oak Ridge National Laboratory - *Summer Intern*

Summer 2019

- Collaborated in a professional setting to create Project Bubbles: a machine designed to demonstrate the power of GPUs to the broader community.

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- Worked closely with an engineering team at the National Transportation Research Center (NTRC) to create a physical enclosure with a two-phase immersion cooling system.
 - Co-wrote a software application that powered Bubbles with multiple physics simulations and a fully-features GUI.

EDUCATION

L&N STEM Academy, Knoxville

August 2017 - PRESENT

- 4.25 GPA
- All AP and Honors Classes
- Coursework has included AP Computer Science A
- Current courses include Cybersecurity, AP Language and Composition, and AP Seminar
- Active member of the National Honors Society