

Dylan T. Tivnan

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Skills

Java, C++, C#, Javascript, HTML, Python, Visual Studio, Bash, NetBeans, Microsoft Office: Word, Teams, PowerPoint, Excel, Outlook, Google Suite, Slack, Github, BitBucket, Unity

Experience

Support Engineer | **TEKsystems - Amazon** | Westford, MA October 2022 - January 2023

- Made the Amazon Dash Cart more user friendly by reporting any issues or bugs to the Amazon Dash Cart team.
- Worked on-site with the Amazon Dash Cart technology and submitted tickets to report and triage any bugs or issues.
- Asked to test beta technology to identify bugs and issues with new products.
- Worked front end with the Amazon Dash Cart team to make sure any bugs or issues persist.
- Proactively worked as a team member of the Amazon Dash Cart team to discuss and fix cart bugs and Issues.
- Successful customer service - Collaborated and worked with customers to promote the use of the carts and help troubleshoot the issues they come across on the floor.

Maintenance Technician | **Congregation of Holy Cross United States** | Easton, MA May 2019-September 2022

- Assisted with maintenance duties including but not limited to in house maintenance, power washing, painting, mowing, mulching, moving furniture, and picking up any necessary parts or supplies.

Hockey Assistant Coach | **Rob Barletta Learn-to-Skate** | Walpole, MA April-June 2017

- Taught hockey skills to children ages 5-10 at Rodman Arena in Walpole.

Volunteer | **Mansfield Food Pantry** | Mansfield, MA Winter 2017

- Served meals for families in need.

Volunteer | **CDI Global** | Remote 2016-2017

- Helped connect technology and computers to people with low socio-economic status in Brazil.
- Taught the basics of how to use a computer including web searches and utilization of Microsoft Word.

Landscape Worker | **Gerhardt Reiter** | Mansfield, MA Summer 2016

- Assisted landscaping company in various projects, including mulching, mowing, weed whacking, etc.

Projects

Programing Language Principle, Final Project, Let-Lang Spring 2022

- This final project contains a small functional language called let lang using java.
- Let Lang has a syntax that was decided upon by group members, and designed a system such that it supports mathematical functions, let statements, multiple let statements, lists, sets, relational operations, if statements, n-way selection, boolean operations, lambda expressions and functions.
- Ran by .let files
- The project was gradually added onto for an entire semester using a BitBucket repository, culminating in this project.

Senior Capstone Project, *AstrolmageJ Contour and Area Measurement Plugin* Fall 2021

- Developed a tool as part of a semester-long capstone project.
- Created a plugin for AstrolmageJ which adds contours to a region of a FITS file and measures the area of each region.
- The intention is to use this tool to study the optical variability of extended sources like M87.
- Created with the help of two other developers, using a bitbucket repository throughout a semester-long project.

Network Security Final, *Password Safe* Spring 2021

- Created a Password Safe over a client and server communication in Java.
- Users can securely store passwords with end-to-end Confidentiality AES GCM Encryption.
- Program prevents MITM (Man In The Middle) attacks.
- Includes a method of authenticating users using a multi-factor authentication One-Time Password.
- Created with the help of two other developers, using a bitbucket repository throughout a three week project.

Computer Graphics, *First Person Shooter* Spring 2020

- Used HTML, Three.js, and JavaScript to create a first person shooter game.
- Created a procedural generated terrain with projectiles as bullets.
- Created with the help of one other developer.

Object Oriented Programming, *GUIs* Fall 2019

- Built a functional GUI that made use of event-driven programming to provide an effective user experience.
- GUI that allows a user to load an image file from a computer, display it in the GUI, and manipulate its pixels.
- Provided functionality to display the image in grayscale, inverted colors, mirrored about the Y-axis, and filtered using one sophisticated algorithm from the rich suite of computer vision filters.

Education

Merrimack College | North Andover, MA May 2022
Bachelor of Science in Computer Science
Activities: Intramural Hockey, Intramural Softball

Mansfield High School | Mansfield, MA May 2018
High School Diploma
Activities: JV and Varsity Hockey