BENJAMIN TAYLOR DOUGLAS

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Technical Skills

Languages/Database: Java, Python, C++, Bash/Shell, JavaScript, SQL
Software & Tools: Git, Linux OS, Jira, Jenkins

Education

Ursinus College, Collegeville, PA   **Expected May 2024**
Bachelors of Science in Computer Science   *GPA: 3.4*

Coursework: Computer Networks, Data Structures & Algorithms, Computer Graphics, Software Engineering, OO Design, Machine Organization & Computer Architecture, Human Computer Interaction, Artificial Intelligence (Fall '23)

Experience

Lockheed Martin   **June 2022 – Present**
Software Development Intern   *Moorestown, NJ & King of Prussia, PA*

- Summer Internship working on the Aegis Weapons System Project (Exentended to year-round part time position)
- Developed a GUI and the required middle-ware for the GUI's implementation with the existing code-base utilizing a combination of modern Python and Java
- Tasked with creation of Robot-Framework Unit Tests to ensure changes made to the product source code are consistent with required specifications
- Developed a Jenkins item to run required audit tools to streamline Developer Pull Request processes
- Implemented a custom c++ linter to enforce company specific code guidelines
- This position required a DoD security clearance

Ursinus College Student Government Association (SGA)   **April 2022 – April 2024**
President (2023-2024) Social Chair (2022-2023)

- Ultimately responsible for ensuring SGA accurately and faithfully represents the Student Body and effectively advocates on their behalf as well as directing actions of the SGA and overseeing budget allocation (for SGA and all accredited campus organizations)
- Chairman of the Student Senate and Representative of the Student Body in institutional proceedings, i.e; Board of Trustees Meetings, Faculty Meetings, Staff Assembly, various ad-hoc committees, etc.
- Proposed and successfully passed a motion to create the Student Regulations Committee through the Senate with the goal of fostering a consistent and fair education experience for all students

Nationally Registered Emergency Medical Technician   **May 2022 – Present**

- Certified to deliver first-aid, basic life support, and emergency medical treatment to patients experiencing a wide array of medical emergencies
- Gained experience and knowledge in being decisive, efficient, and calm in high pressure situations

HAM Radio Science Citizen Investigation (HamSci)   **Jan 2021 – May 2021**
Volunteer C++ Developer

- Worked on the Personal Space Weather Station (PSWS) project which aims to crowd-source atmospheric data from PSWS nodes run by Ham Radio enthusiasts around the world
- Responsible for developing a C++ version of the PSWS source code and eliminating dependencies on third party libraries and software

Ursinus College Library and Information Technology   **August 2020 – Present**
Event Technician   *Collegeville, PA*

- Responsible for set up and facilitation of technology and equipment needed for events on campus
- Events range from smaller presentations and club events to larger campus wide events such as live concerts, shows, awards events, and graduation

Montclair Bikery   **Jan 2015 – Feb 2022**
Mechanic, Salesperson, Bike Builder   *Montclair, NJ*

Projects

Lockheed Martin Aegis Weapons System | *Python, Java, C++, Robot Framework, Jenkins*   **June 2022 – Present**
- Designed and created a user interface which integrated with the automated test framework used at LM to conduct compliance testing
- Worked to consolidate unit testing of the Mission Planner product line using Robot Framework
- Created a custom linting script to automate the enforcement of company specific code standards and guidelines
- Implemented a new Jenkins job to make all required audit testing runnable by a click of a button, further streamlining the pull request process for developers

Remote File Server | *Java, FTP, HTTP, TCP*   **March - May 2023**
- Utilized networking/socket programming protocols to create a client/server program allowing users to save documents to a server via their internet connection.
- Write about your project experience.

Jump Flood Algorithm | *Python, matplotlib, Adobe Premiere Pro,*
- Utilized python to create a program mimicking the Jump Flood Algorithm without the use of the GPU.
- Utilized this program to assist in creating a video visualizing and explaining this algorithm.

Volunteering & Extracurriculars

1: Planning Staff Member and Team Member for the Sandy Hook Ride on Washington   April 2016 - April 2022

- On December 14, 2012, twenty children and six educators lost their lives in the mass shooting at Sandy Hook Elementary School in Newtown, Connecticut. During the spring of 2013, Monte Frank, a Newtown resident and father of children who attended Sandy Hook Elementary, responded by creating Team 26, a group of 26 cyclists representing the 26 souls who were taken on December 14. That first year, Team 26 rode from Newtown to Washington DC to raise awareness of the lax gun laws in America. Every year since then, Team 26 has cycled through some of the worst New England weather to deliver a message to Washington - Americans want sensible gun laws. Since 2016, I have been one of the 26 cyclists completing this journey and having the opportunity to address fellow citizens, the press, as well as legislator on the state and federal levels. Since 2018, I have also been one of the planners and organizers of the ride.

2 : Volunteer C++ Developer for HamSci

- See Experience section above

3 : Ursinus College Student Government Association President

- See Experience section above

4 : Ursinus College Mens Rugby Club

Certifications & Achievements

1: Eagle Scout
2 : National and Pennsylvania Registered Emergency Medical Technician
3 : Ursinus College Social Justice Scholar