

William Valentine

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- Objective:** Seeking research or internship experience in the field of Computer Science
- Education:** **Bachelor of Science, Computer Science** **May 2027**
Rose-Hulman Institute of Technology, Terre Haute, IN
Expected Courses by Summer 2024: Data Structures, Intro to Systems Programming, Introduction to Software Development, Object-Oriented Software Development, Programming Language Concepts, Computer Architecture, Web Programming
- High School Dual Program with Houghton University, Houghton, NY **July 2023**
Relevant courses: Programming I, Programming II, Web Frameworks
- Skills:** Programming Languages: JavaScript, Python, Java
Systems: Windows, Macintosh, Linux
- Research:** **Rose-Hulman Institute of Technology, Terre Haute, IN**
LiDAR Point Cloud Alignment Using Hand Crafted Features **Fall 2023**
- Worked alongside faculty to address alignment issues caused by learning based point cloud alignment methods
- Houghton University, Houghton, NY**
Intersection Traffic Automation for Vehicles **Summer 2023**
- Created a physical, working model of a server-controlled autonomous intersection
- Modeling and screening aggregation inhibition of amyloid-beta peptides by small molecules as potential drug candidates **Summer 2023**
- Designed a python-based command-line tool to simplify the usage of AutoDock Vina in molecular bonding
 - Created a tool to automatically process Mass Spectroscopy results
 - Sped up the screening process dramatically; tools will be used in Houghton courses
- Controller-free video games **Spring 2023**
- Created a demo of Tic-Tac-Toe that did not require any controllers or keyboards
 - Explored other examples of controller-free video games
- Experience:** **Managing Partner, Tamriel Savings Co.** **August 2020 – August 2023**
- Created an image scanning system that recorded text from images 138% faster than leading commercial services with over 98% accuracy
 - Grew the user base to 2-3K users daily
 - Created a Discord bot that is on over 1,000 servers
- Honors:** Houghton University, Houghton, NY
London Honors Program
- Highly competitive program for undergraduate students to study the humanities and art in London for a semester
- Outstanding Computer Science Research 2023