

# GARRETT FAUCHER

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## EDUCATION

**Bachelor of Science, Computer Science, Astronomy Minor**  
The University of Vermont, Burlington, VT

Degree Expected May 2021  
GPA 3.31

## TECHNICAL SKILLS

- *Languages: C, C++, Python, Java, JavaScript, Swift, MySQL, HTML, CSS, PHP, AutoHotKey, MATLAB*
- *Libraries: Matplotlib, pandas, NumPy, React.js*
- *Software/OS: Linux, Git, core Flight System (cFS), Microsoft Office, G Suite*

## PROFESSIONAL EXPERIENCE

**Tapeout Systems Software Engineer | GlobalFoundries | Burlington, VT** September 2020 – Present

- Implemented software solutions in Python to automate the testing and verification of production environments.
- Updated portion of internal tools to abstract testing functionality for general reuse.
- Utilized behavior-driven development practices in working environment.

**Flight Software Systems Intern | NASA Goddard Space Flight Center | Greenbelt, MD** May 2020 – August 2020

- Engineered a core Flight System (cFS) application in C language for execution of shell commands on satellite missions.
- Implemented a defined set of requirements into the application for full functionality of the application.
- Tested functionality of cFS app software to ensure proper error handling.
- Developed testing scenarios to verify the proper execution of app commands in real mission use cases.
- Communicated effectively in a fully remote work environment and exceeded expectations of project.
- Documented cFS application to communicate how application can be utilized in future missions.

**UVM Robo-Registration Lead Developer | Self Driven | Burlington, VT** November 2019 – May 2020

- Designed Chrome extension to automatically register users for college classes via automation of UVM website.
- Aligned team development goals by implementing Kanban method using Trello boards to track development.
- Screened users' interaction with software to ensure intuitive use of GUI and functionality of product.
- Practiced agile software development methodology to ensure requirements for software were being met.

**Imagery Data Coordination Co-Op | Wayfair Corporate Office | Boston, MA** May 2019 - August 2019

- Managed metrics for domain director's weekly progress report on internal efficiency.
- Launched survey system to monitor workflow blockages in production pipeline.
- Discovered discrepancies in data sources to find accurate production metrics.
- Forecasted bottlenecks in domain production pipeline to ensure proper allocation of resources.
- Coded extended functionality into Google Sheets for complex data monitoring.

## LEADERSHIP EXPERIENCE

**Astronomy Lab Teaching Assistant | University of Vermont | Burlington, VT** August 2018 – Present

- Led laboratory sessions to educate students in optics, orbital patterns, retrograde motion, and stellar spectra.
- Redesigned lab curriculum through the modernization of laboratory procedures during transition to online learning.
- Facilitated a discussion on various topics within astronomy to 20 students on upcoming test materials.

**Lead Resident Advisor | University of Vermont | Burlington, VT** August 2018 – March 2020

- Managed ~45 residents through building community and facilitating programming.
- Shaped an inclusive community within residence hall to increase student happiness and success.
- Facilitated monthly circles to inform residents of upcoming activities and safety procedures on campus.
- Served as a peer advisor to residents, connecting them with various campus partners.