Jared Harvey

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Education

Carnegie Mellon University — *Pittsburgh, PA* **August 2022 — December 2023 (Expected)**

- **Master of Software Engineering**, Scalable Systems

The University of Alabama — *Tuscaloosa, AL* **August 2018 — May 2022**

- **Bachelor of Science** in Computer Science and Computer Engineering (Dual Major), **Minor** in Mathematics.
- **Overall GPA:** 4.0
- **Relevant Coursework:** High-Performance Computing, Operating Systems, Programming Languages, Databases. Embedded System Design, Computer Architecture Design, Digital Systems Design, Signals and Systems.

Skills

- **Languages:** C/C++, Python, Java, JavaScript, x86 Assembly, HTML, CSS, C#, BASH, Git BASH
- **Technologies:** MATLAB, Tensorflow, Pandas, GitHub, Visual Studio, Bootstrap, .NET, React

Relevant Experience

Fluid Shift Research Team — *Senior Research Project* **August 2021 — May 2022**

- Collaborated in a team of 5 students in a computer engineering capstone project studying the impact of microgravity on fluid in the body.
- Used C and C++ to design and implement embedded system software responsible for receiving and processing data from attached sensors to be output to an SD card.
- Contributions across multiple files consist of approximately 1000 lines of code.

Methods-Time Measurement Study — *Senior Research Project* **January 2022 — May 2022**

- Participated in a company-sponsored capstone project using Kinect for Windows to monitor and analyze workers habits in a manufacturing environment.
- Used C# and the .NET framework to design the frontend application, providing visual feedback to the user and identifying a set of 8 manufacturing process activities.
- Developed software leadership skills by scheduling team meetings and reporting to supervising faculty.

Northrop Grumman — *Automated Software Testing Intern* **May 2021 — July 2021**

- Led a team of 6 in an effort to introduce automated regression testing software to a suite of tools available for validating product functionality.
- Used Froglogic Squish and Python to identify and develop new test cases to improve and automated testing coverage, reducing the time to perform routine testing by 20%.
- Assisted in a trade study to explore software license management software as potential candidates for purchase, saving an estimated $80,000 in operating costs annually.
- Completed extensive documentation using Confluence tools to streamline the onboarding process for new hires.

Northrop Grumman — *Machine Learning Intern* **May 2020 — August 2020**

- Worked on a team of 4 to investigate the viability of a machine learning model to replace an existing model for classifying mission-critical threats.
- Used Python, Pandas, Scikit-Learn, and Tensorflow to test time-series learning models, using a dataset of approximately 2,000 commercial airline tracks as surrogate data.
- Developed skills in reading and interpreting research papers by referencing and applying cutting-edge machine learning techniques to fit the given classification problem.
- Automated model comparison by implementing a testing framework in Python to simulate live data collection.