

JORDAN MAYER

Hi. I'm Jordan, and I almost became a writer – but I decided to do this instead. I love programming, I love being creative, and I love solving problems. My dream is to take all those passions and put them together to make the world a bit better.

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Clearance Level
Secret

Current Address
2243 Sagamore Pkwy W
Apt 1914
West Lafayette, IN 47906

Permanent Address
17361 Turnbury Ct
Granger, IN 46530

TECHNICAL SKILLS

Experienced

Microsoft Office Suite (sans Access)
Microsoft Visual Studio
AutoCAD & Inventor
HTML5/CSS3
CATIA V5
MATLAB
C & C++
Python
Java

Familiar

General Mission Analysis Tool (GMAT)
Systems Tool Kit (STK L1 Certified)
Microsoft Access
ARM Assembly
Bootstrap 4
WPF/XAML
JavaScript
Mercurial
Node.JS
jQuery
UNIX
SQL
Git
R

EDUCATION

Purdue University, West Lafayette, IN **May 2020**
B.S. Computer Science **Cumulative GPA: 3.92/4.0**
B.S. Aeronautical & Astronautical Engineering
B.A. Philosophy

LEADERSHIP EXPERIENCE

Supplemental Instruction Leader. **AAE 203, 251, 333** August 2018 to Present
Purdue University.

- Acted as first ever SI Leader for both AAE 203 and AAE 251
- Organized and facilitated collaborative learning sessions to improve students' understanding of basic kinematics and statics (AAE 203), aerospace design concepts (AAE 251), and fluid mechanics (AAE 333)
- Held weekly office hours to discuss homework problems, exam preparation, and key course concepts with struggling students

President. **Purdue Sigma Gamma Tau**. Purdue University. May 2018 to May 2019

- Oversaw all committees and events to ensure appropriate scheduling and preparation
- Served as primary representative to faculty, staff, and SGT National to foster positive relationships and reputation
- Initiated permanent improvements to organization including updated Constitution, more orderly elections, and more varied guest speakers

Photography Team Lead. **SEDS/AIAA HAB**. October 2016 to August 2017
Purdue University.

- Led team of four students in designing original high-altitude balloon photography system
- Oversaw design of payload delivery system to ensure optimal photograph conditions
- Achieved peak altitude of over 123,000 ft

TECHNICAL EXPERIENCE

Creator. **Tweet Simulator**. Personal Project. May 2019

- Created web app to read through a given user's twitter feed and simulate their tweets using machine learning
- Implemented front-end interface using HTML5, CSS3, and Bootstrap 4
- Implemented back-end functionality using Python with markovify and Flask

Engineering Intern. **Missile & Aviation Systems**. Dynetics, Inc. May to August 2018

- Utilized Microsoft Visual Studio to develop clean, modern trajectory simulation software for unmanned aircraft
- Created, removed, and modified over 50,000 lines of code, primarily in C++ and C#
- Trained machine learning models in Python to provide real-time situational awareness

Orbital Specialist. **SEDS/SSPI Satellite Competition**. April to November 2017
Purdue University.

- Worked with team of six Purdue students to create design document for communications system to support hypothetical lunar base
- Researched potential orbital layouts to determine optimal arrangement of satellites
- Designed frozen elliptical orbital architecture to ensure stable, reliable network

Engineering Co-op/Intern. **Lafayette Engine Facility**. GE Aviation. May to August 2017

- Provided daily support to Maintenance, Repair, and Overhaul operations on LEAP 1A and 1B turbofan engines
- Designed custom tools and storage pallets using AutoCAD and Inventor
- Worked in team-centered, self-starting environment with little direct supervision

HOBBIES AND INTERESTS

Playing, running, and writing for Dungeons & Dragons campaigns
Baking cakes, cookies, and other treats
Constantly listening to podcasts