

James Howe

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Education and Honors

Bucknell University, Lewisburg, PA

August 2019 – May 2023

Computer Engineering Major & Mathematics Minor, **GPA 3.58/4.0**

Dean's List: 8 Semesters ◇ Graduated Cum Laude

Certifications

- **Cisco Certified Network Associate (CCNA)**, Cisco. December 2024, Expires 2027

Relevant Experience

Kyndryl

Denver, CO

Senior Network Associate

July 2023 – July 2024

- Researched and developed automation to optimize client's Azure and AWS cloud networks with Terraform and Python
- Developed network architect skills, how to fulfill client needs and how to communicate plans to clients
- Shadowed client meetings, discussing pricing and developing solutions

Bucknell University, Senior Capstone Project

Lewisburg, PA

Design Engineer

August 2022 – May 2023

- Developed an image recognition AI with Keras and Tensorflow
- Used VMware alongside Docker to construct a microservice architecture on a Linux os
- Presented the finished project at the Hannover-Messe industrial trade fair

Bucknell University, "MakerE" Makerspace

Lewisburg, PA

Lead Student Programmer

July 2021 – May 2023

- Refactored the Makerspace's RF card access system for its Linux based embedded machines
- Diagramed systems to express functionality for new programmers and managers
- Developed both backend and frontend for the Makerspace's RF card access system
- Created and managed API calls for a MySQL database
- Wrote guides for the deployment of the system to other colleges

Bucknell University, CSCI 205: Software Engineering and Design

Lewisburg, PA

Scrum Master on capstone project

May 2021

- Utilized the Scrum workflow to complete a working video game with a team of 4 in 3 weeks
- Designed user interfaces in Java using a Model View Controller architecture
- Communicated with team members remotely from project start to end

Bucknell University

Lewisburg, PA

Computer Engineering Research

August 2020 – August 2021

- Created a database of a variety of common microcontrollers to allow for easy comparison
- Adapt code written for a specific microcontroller to other microcontrollers
- Wrote code that adapts a microcontroller to allow for RFID communication with it

Bucknell University

Lewisburg, PA

Electrical Engineering Class TA

August 2020 – August 2021

- Created a program in Python to send data from a microcontroller to an online repository
- Developed a library for the microcontroller that offers a variety of embedded functions
- Provide additional support with the library as new issues arose

Non-Technical experience

Bucknell Theater Department

Lewisburg, PA

Stage Manager

September 2019 – May 2023

- Manages ensembles of actors up to 20 students, organizing schedules and planning rehearsals
- Required to be flexible and learn new skills quickly to fill in for anyone who is unavailable
- Take, summarize, and communicate notes from the director to departments and actors

Skills and Courses

Courses: Diff. Eq ◇ Lin. Alg ◇ Machine Learning ◇ Image Proc. ◇ Data Mining ◇ Design & Analysis of Algorithms

Technical Skills:

Docker ◇ Linux ◇ Git ◇ Microsoft Office Suite ◇ Laser Cutting ◇ 3D Printing ◇ Soldering ◇ 3D modeling ◇ Blender

Programming languages:

- **Proficiency:** Python(Numpy, Pandas, Tensorflow, Keras), Java, C++
- **Experience:** ARMv7 Assembly, MATLAB, Javascript, SQL, PHP, mustacheJS, HTML, Haskell, Prolog