

# Benjamin Nicholson

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- Senior at Seton Hill University, completing Bachelor of Science with a major in Data Science
- Captain of Seton Hill Men's Soccer Program (NCAA DII)
- Head Resident Assistant for Seton Hill University Residence Life
- Statistics Tutor at Seton Hill University
- Australian-born (F-1 Visa holder) – STEM OPT



GitHub: bennicholson2  
LinkedIn: Ben Nicholson

## Experience at University

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### Head Resident Assistant

August 2023-Current

The Head Resident Assistant is responsible for supervising and providing guidance for Resident Assistants

- Perform progress reviews of Resident Assistants
- Resource management for Residence department offices
- Prepare and distribute communications regarding scheduling and events

### Statistics/Programming Tutor

August 2024-Current

Selected by professors to be tutor in Seton Hill University classes:

- SMA 127 Statistics for Science
- SMA 129 Statistics for Business
- SCS 142 Programming II (Python, R, Matlab)

### Fundraiser Coordinator

August 2023-Current

Coordinate University wide fundraiser for breast cancer awareness

- Achieved 2<sup>nd</sup> place in fundraising for the 2023-2024 academic year
- Program involved my leadership of a twelve member team over three months

### Resident Assistant (1<sup>st</sup> Year Dorm)

August 2022-May 2023

- Resident dispute mediation
- Write communication reports, responding to complaints, reports, incidents or emergencies
- Plan and promote events for residents on a monthly basis

### Intramurals Sports Coordinator

January 2022-December 2022

- Organize 10 University-wide sports events
- Marketed sports events to the Seton Hill University community via social media

### Office Clerk for Student Involvement

August 2022-January 2023

- Created and communicated marketing materials for campus events

## Project Experience

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### Maryland Automotive Industry Analysis & Forecasting (Python)

January 2024-Current

- In depth seasonal decomposition
- ARIMA/SARIMA/SARIMAX base models and integrating economic conditions
- Mathematical Modeling to understand and forecast data

### Customer Clustering Segmentation (Python/Orange)

April 2024-May 2024

- Machine Learning techniques - K-Means clustering, logistic regression, PCA, neural networks
- Identified different demographics that hold similar purchasing behavior

### SIR Modeling Fictional Disease (Python)

April 2024-May 2024

- Parameter optimization, stochastic modeling
- Investigate how lockdowns, vaccinations and infection rates change infections total

### Time Series Sales Analytics and forecasting (Python)

April 2024-May 2024

- Box Jenkins, Holt Winter's and Regression performed on a variety of sales time series

## Casual Experience in Australia

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**1001 Nights | Waiter***December 2020-April 2021*

- Welcome and seat guests
- Effectively communicate with the kitchen staff
- Memorise and recommend the menu to guests

**Treehaven Equine | Farm Hand***December 2020-May 2021*

- Work with a small team to coordinate different projects on the farm
- Operate and maintain farm equipment, including gators, industrial trail mowers, industrial wood cutting and large weed sprayers, pressure cleaners
- Maintenance such as lawn care, shrub control, weed control, and wire electricity to fences

**Poolwerx | Store Clerk***December 2020-February 2021*

- Customer advice and sales
- Proactive floor stock management
- Chemical analysis of pool samples, with pool product recommendations

**McDonald's | Crew Member***May 2018-October 2019*

- Operate large-volume cooking equipment such as grills, and deep-fat fryers

**Education**

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**Seton Hill University** (Greensburg, PA | Class of 2025)*January 2022-Current  
GPA: 3.68*Dean's List

Spring 2022

Spring 2024

**Peninsula Grammar** (Mount Eliza, Vic, Australia | Class of 2020) *January 2014-December 2020**ATAR: 87.75**\*Top 12.25% in State***References**

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**Dilveer Chaggar** – Head Coach Seton Hill University

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Email: [dchaggar@setonhill.edu](mailto:dchaggar@setonhill.edu)**Jared Burns** – Coordinator for Data Science at Seton Hill UniversityEmail: [jburns@setonhill.edu](mailto:jburns@setonhill.edu)**Josef Schatz** – Area Coordinator for Resident Assistant role

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