

# Shahnawaz Syed

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## EDUCATION

**B.S. Computer Science, Economics (Minor in Mathematics)**

Expected May 2026

Arizona State University, Tempe, AZ

3.96 GPA

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, C/C++, JavaScript, R

**Front-End:** HTML, CSS, React, Node.js

**Tools, Databases, and OS:** Git, SQL, Tableau, MATLAB, Stata, Excel

## PROFESSIONAL EXPERIENCE

**ASU SensIP Center, Dublin, Ireland: Machine Learning Researcher**

May 2024 - Present

- Test novel **machine learning** model on external datasets to investigate accuracy and versatility
- Utilize **PyTorch**, **sklearn**, and **NumPy** libraries for data preparation and analysis
- Implement numerous **optimization** techniques to improve efficiency and precision

**New Venture Group, Tempe, AZ: Senior Consultant**

September 2023 - Present

- Created an implementation and growth strategy for an EV charging startup
- Researched local market to develop an identification **model** for lucrative partnership opportunities

**Searchful.app: Software Intern**

May 2023 – August 2023

- Programmed a verification algorithm for **data quality assurance**, highlighting errors in **over 20%** of the main database
- Interacted with and implemented numerous public maps **APIs** to verify entries

## PROJECTS

**Applications of Deep Learning to MRI Imagery**

Summer 2024

- Working under Dr. Julia Deitlmeier (Insight Center at Dublin Center University) on applications of **Convolutional Neural Networks** to MRI imaging for early detection/classification of brain tumors
- Employing the **PyTorch** and **sklearn** libraries for **machine learning** implementation in **Python**

**r/WallStreetBets Stock Sentiment Analysis**

Summer 2024

- Using a dataset from the online forum r/WallStreetBets containing all posts from January to February 2021, utilized **Natural Language Processing (TextBlob, NLTK)** to analyze relative sentiment of a given stock
- Computed average daily sentiment and plotted it against the stock's daily price using **Python**, comparing user sentiment and actual performance
- [github.com/shahnawazsyed/WSB-Stock-Sentiment-Analysis](https://github.com/shahnawazsyed/WSB-Stock-Sentiment-Analysis)

**An analysis of the impact of microcredit education on success of small businesses in Vietnam from 2014 - 2016** Spring 2024

- Working with an external dataset, deployed **Stata** to examine effects of microcredit education on surveyed small businesses owners, finding statistically significant evidence for an increase in overall income as a result of education
- Constructed three **regression models** (simple fixed effects, fixed effects with four regressors, difference-in-differences)
- [docs.google.com/document/d/1Bs7V19jDArCFwBMYmbgZvNCDY75P07QOURDBiHT52Mk](https://docs.google.com/document/d/1Bs7V19jDArCFwBMYmbgZvNCDY75P07QOURDBiHT52Mk)

## WORK EXPERIENCE

**Arizona State University, Tempe, AZ: Subject Area Tutor**

January 2024 - Present

- Tutor students in math, engineering, and business courses, working in both online and in-person modalities

**Arizona State University, Tempe, AZ: Instructional Aide**

August 2023 - Present

- Assist professor with in-class instruction, proctor examinations, and troubleshoot technical issues during lectures

**iDTech Camps, Arlington, VA: Instructor**

May 2023 - August 2023

- Taught core programming concepts (Java, Python) to students of varying skillsets

## EXTRACURRICULAR EXPERIENCE

**Unified Society of South Asians: Vice President**

May 2023 - Present