

# Harsh Soni

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## EDUCATION

### The Pennsylvania State University

*Bachelor of Science in Computer Science & Economics*

University Park, PA

Aug. 2023 – May 2027

## LEADERSHIP & INVOLVEMENT

### Penn State Derivatives Association

Sep. 2024 – Dec. 2024

*Member*

- Gained experience in options and futures pricing, including strategies for risk management
- Developed a strong understanding of the Greeks and their application in derivatives trading
- Analyzed market trends and volatility impacting futures and options strategies

### Nittany Markets Analysis Association

Sep. 2024 – Dec. 2024

*Member*

- Bi-weekly discussions on macroeconomic trends impacting fixed income, currency, and commodity markets

### Design Club

Apr. 2021 – Dec. 2022

*Vice President*

- Conducted weekly meetings with a team of 100+ members to brainstorm, and plan for future projects and ideas
- Initiated and managed project execution based on team discussions, ensuring timely progress on design initiatives
- Created and distributed weekly newsletters to the entire school, keeping members and students updated on ongoing and upcoming projects

### Lawn Tennis

Jan. 2012 – Present

*Athlete*

- Engaged in the sport for 12 years, achieving a top 50 National ranking (U-18)

### Social work/NGO internships

Jan. 2022 – Jan. 2023

*Intern*

- Internships under 'Tribes for Good', completed 10-12 fieldwork sessions for PRATYeK
- Participated in fundraising campaigns for Thinksharp Foundation

## ACADEMIC EXPERIENCE

### Grader

Jan. 2025 – Present

*Econ 104 (Macro Economics)*

- Evaluated and graded assignments and exams in collaboration with the course professor
- Maintained consistency and accuracy in grading while adhering to academic standards
- Supported the professor in managing coursework and student inquiries as needed

## PROJECTS

### Stock Predicting Algorithm — Python (NumPy, pandas, PyTorch, Matplotlib)

Jan. 2025 – Present

- Conducting independent research on market forecasting, leveraging **quantitative models & statistical analysis**
- Analyzing **historical price data, volatility trends, and technical indicators** (RSI, MACD, Bollinger Bands) to identify patterns
- Exploring **macro & micro market drivers** to assess predictive methodologies and risk factors

## COURSE WORK & SKILLS

**Languages:** Python, Java, C, SQL, JavaScript, HTML/CSS

**Relevant Courses:** Micro & Macro Economics, Econometrics, Data Structures, Computer Networks, Object Oriented Programming, Database Systems, Data Analysis and Visualisation

**Certifications:** Python (University Of Michigan), **Bloomberg Market Concepts**, Financial Markets (Yale) (ongoing), AI and Machine Learning (CampK12)