




Ethan Olesinski

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EDUCATION

Northeastern University

Boston, MA

Candidate for: Master of Science, Computer Science | *Current GPA:* 3.93/4.00

Expected May 2025

University of Nevada, Reno

Reno, NV

Major: Bachelor of Science, Economics | *Minor:* Mathematics

Jan. 2017 – May 2020

Major GPA: 3.94/4.00 | *Cumulative GPA:* 3.88/4.00 | *GRE Scores:* Verbal 164 (94th percentile), Quantitative 160

Honors/Awards: Regents Scholarship Award (2018); Deans List (2017-18, 20); Phi Kappa Phi (Top 5% of Class)

Relevant Coursework: Analysis of Algorithms; Linear Algebra; Probability and Statistics; Bayesian Statistics

Columbia University

New York, NY

Visiting Student at Columbia College | *Area of study:* Financial Economics/Computer Science

Jan. 2019 – Dec. 2019

Relevant Coursework: Machine Learning for Social Science; Discrete Time Models in Finance; Econometrics

PROFESSIONAL EXPERIENCE

Federal Reserve Bank of Boston

Boston, MA

Applied Fintech Research Intern - Central Bank Digital Currencies (CBDCs)

July 2023 – Dec. 2023

- Investigated digital currencies/assets, stable coins, and distributed systems/databases for use in retail/P2P transactions
- Interfaced directly with senior Federal Reserve officials, presented research findings, and performed code reviews
- Improved API by paginating endpoints using Python/SQL, wrote front-end unit tests in React, and created shell scripts

Nevada Governor's Office of Economic Development

Carson City, NV

Public Policy Research Intern

Sept. 2020 – Feb. 2021

- Advised senior cabinet members on economic strategy and helped provide recommendations regarding infrastructure
- Collaborated with team of 10 to draft policy proposals/legislative briefs to inform decision making of state officials
- Assisted with organizing virtual trade missions aimed at attracting foreign direct investment (FDI) from 70 companies, across 19 countries, leading to 7 new partnerships

University of Nevada, Reno

Reno, NV

Research Assistant – Prof. Mehmet S. Tosun (Dept. of Economics)

July 2020 – Feb. 2021

- Conducted qualitative and quantitative economic research and presented key findings at the World Bank (webinar)
- Created data visualizations, analyzed datasets, published reports, and built linear regression models using Stata
- Automated economic data extraction, cleaning, and formatting process by writing Python code that saved 3.5hrs/week

PROJECTS

GeoStates (open-source Python package - over 3,800 downloads on PyPI)

- Developed/published geospatial data visualization package reducing the time/difficulty of creating choropleth maps
- Utilized shapefiles, built CI/CD pipeline using GitHub Actions, and wrote documentation page/examples with Sphinx

Stock Price Prediction using ML/NLP

- Implemented random forest model to predict stock price movement using sentiment analysis of related Tweets
- Utilized Twitter API, VADER for sentiment analysis, scikit-learn for model building, and matplotlib for visualization

LEADERSHIP & OTHER EXPERIENCE

UNR Writing & Speaking Center

Reno, NV

Graduate Consultant

April 2021 – May 2021

- Tutored 60 students in writing/speaking skills by reviewing essays, research papers, dissertations, and presentations

Investment Club

Reno, NV

President, Co-Founder

Jan. 2017 – Dec. 2018

- Founded a club to explore financial markets, analyzed current events, and taught portfolio management concepts
- Managed real-time, simulated portfolios with \$100,000 AUM and organized club wide performance competitions
- Led meetings, developed lesson plans, coordinated guest speakers, and promoted financial literacy to over 30 students

TECHNICAL SKILLS

Programming Languages: Python; Java; C/C++; R; HTML/CSS; SQL; Matlab; L^AT_EX

Libraries/Frameworks: pandas; NumPy; scikit-learn; matplotlib; GeoPandas; Keras; JUnit; pytest

Tools/Technologies: Git; GitHub; Jira; Unix/Linux; Docker; AWS; VS Code; PyCharm; Agile Methodologies

Other: Bloomberg Terminal (BMC, ESG); Preqin; PitchBook; Capital IQ; Microsoft (Word, Excel, PowerPoint)