Andrew Cheney

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Education

Bachelors of Science in Mathematics | Graduating Dec 2024

    Minors in Data Science and Computer Science
    University of Washington
    Annual Dean's List 2021-2024
    GPA: 3.94

Associate's Degree in Arts and Sciences | Jun 2021

    Everett Community College

Relevant Work

Business Administration Assistant | TC Quality Solutions **|** Mar 2016 - Present

- Utilized company databases and web services to support business operations.
- Effectively communicated with customers regarding service requests and company information, ensuring high customer satisfaction.

Relevant Projects

The Effect of Rainfall on the Puget Sound | Research Project **|** Feb 2021 - Jun 2021

- Gathered, cleaned, and analyzed a decade of weather and sensor data using Python and Excel.
- Presented findings in a research paper and presentation, demonstrating strong analytical and communication skills.

Genomic Data Analysis | PNNL Research Project **|** Jan 2024 - Present

- Worked with peers and the University of Washington Bothell and Pacific Northwest National Laboratory on a research project sponsored by the Mathematical Association of America.
- Processed and analyzed extensive genome sequence data using Python and BioPython for many genera, focusing on k-mer frequency distributions.
- Applied statistical models and machine learning techniques to compare genomic patterns across bacteria and predict DNA sequence characteristics.
- Utilized neural networks to classify and predict DNA sequences accurately.
- Presented findings through visualizations, reports, and presentations.

Analyzing Performance of Stock Trading Algorithms | Personal Project **|** Mar 2021 - Nov 2021

- Used Python, NumPy, Pandas, and data analysis to develop and assess a range of stock trading algorithms.
- Utilized historical data obtained through APIs to thoroughly test the algorithms' performance and effectiveness, demonstrating strong quantitative and analytical abilities.

Cultural Inclusivity within Edmond School District | Class Project **|** Jan 2023 - Mar 2023

- Leveraged Tableau for advanced visual analytics of Edmond School District survey responses, focusing on student perceptions of cultural and linguistic appreciation within the education system.
- Employed data cleansing techniques in Excel to ensure data accuracy and quality before analysis.
- Synthesized insights and created an impactful PowerPoint presentation to communicate findings to the Edmond School District.

Skills

- **Coding Languages:** Python, Java, JavaScript, SQL, HTML, CSS, R, Sagemath, Matlab, C++
- **IDE's/Editors:** Visual Studio Code, Visual Studio, Jupyter, Eclipse, Rstudio, Matlab
- **Python Libraries:** Pytorch, NumPy, Matplotlib, Pandas, Scikit-learn, OpenCV, Numba, CuPy, SciPy, PyTorch, TensorFlow
- Microsoft Office Suite
- Adobe Suite

- Research
- Data Analysis and Visualization
- Creative
- Logical Thinker
- Problem-Solving
- Critical Thinking
- Teamwork
- Data
- Tableau