

Ella C. E. Jones

ellajones2025@u.northwestern.edu | <https://www.linkedin.com/in/ellacejones/>

EDUCATION

Northwestern University, Evanston, IL

Bachelor of Arts in **Computer Science** | Minor in **Data Science** – Anticipated 06/25

Relevant Coursework: Computer Systems; Linear Algebra; Discrete Mathematics; Data Structures and Algorithms; Fundamentals of Computer Programming I-II; Multivariable Differential Calculus; General Physics; Sequences and Series; Microeconomics; Machine Learning; Design & Analysis of Algorithms; Data Management and Information Processing; Practicum in Intelligent Information Systems; Causal Graphical Modeling; Data Visualization; Applied Statistical Learning and Decision Making in Economics; Scalable Software Architecture; Internet Security; Computer Networking; Data Science Pipelines; Computer Security

NOTABLE PROJECTS

- Chatbot API with TensorFlow / Keras Modeling (Python)
 - Estimating the Causal Impact of Economic Indicators on GDP (Python)
 - Tracing the Causes of the Great Recession: A Study and Statistical Analysis (Python, R)
 - Utterance Sample Analysis / Topic Modelling with Company Pypestream (Python)
 - Competitor Pricing and Sales Analysis Tool (Python, Selenium IDE)
 - Company Pricing, Inventory, and Sales Analysis (Power BI, DAX, Power Query)
 - Predictive Inventory Analysis and Recommendation Tool (Google Apps Script, OpenAI, Google Sheets)
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SKILLS

Programming: Python, C, C++, C#, R, Javascript, HTML, PHP

Software: Operating Systems & Server Management (Linux, Unix, MS Server); Database & Cloud (SQL, Oracle, Cloud engineering); Programming & Development (Django, Flask, Unity, Jupyter, Git, Selenium IDE); Data Science & Machine Learning (TensorFlow/Keras, Time Series Forecasting, Word Vectorization, NLP, PCA); Security & Analysis (Ethical Hacking Skills, STATA, MATLAB); Data Analysis & Spreadsheets (Excel, Google Sheets, Tableau, Power BI, QlikView, DAX, Power Query); Web Development & APIs (Web API Dev/Extraction)

Languages: English, German (Native Speaker); French (Advanced, Professional Proficiency); Spanish, Russian (Beginner's Knowledge)

PROFESSIONAL EXPERIENCES

Business Data Analyst Intern – The Jordan Company, L.P. – Chicago, Illinois 06/24 – 08/24

Supported delivery of major EBITDA and cashflow improvements • Interpreted data to identify value-creation opportunities • Built data tools to provide key insights • Provided modeling support and analytical rigor to value creation projects • Developed metrics and scorecards to track, analyze, and validate operational performance

Financial Assistant – Student Organization Finance Office – Northwestern University (Evanston, Illinois) 09/23 – 06/24

Provided front line customer service to student organization officers • Conducted preliminary screenings of transaction requests and supporting documentation • Developed new programs to process data entries, checks, and assist treasurers in balancing ledger books

Undergraduate Researcher, Project Head – DTR Group – Northwestern University (Evanston, Illinois) 09/23 – 12/23

Led a research initiative focused on enhancing work practices through self-regulation and situated reflection methods • Oversaw and contributed to the conceptualization, design, and implementation of methods and technologies • Collaborated with a diverse team to integrate developed tools • Helped to develop a strategy for optimizing work and learning experiences via networked orchestration technologies

Data Analytics/CXS Intern – Pypestream – New York, New York 05/22 – 08/22

Impactful intern at Pypestream collaborating with multiple departments and teams • Valuable member of the Data Analytics and CXS Team • Applied Python programming and Cloud services to extract and analyze data from Chatbots/APIs to present to a variety of clientele • Created new, effective ways to present analysis to customers • Developed new scripts/programs for data extraction, cleansing, and analysis