Emily Cheng

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EDUCATION

University of Maryland (UMD) **May 2026**
B.S. Mathematics: Statistics and B.S. Computer Science, Minor in General Business *GPA: 3.81*
Relevant Courses: Data Science, Data Structures, Algorithms, Databases, Object-Oriented Programming, Probability and Statistics

TECHNICAL SKILLS

Languages: Java, Python (Pandas, Plotly, Numpy), SQL, SAS, C++, HTML/CSS
Developer Tools: AWS (CloudWatch, Lambda, S3, Redshift), Power BI, PySpark, Tableau, Dataiku, Terraform, Jira

EXPERIENCE

Johnson & Johnson **May 2025 - present**
Data Science Intern *Titusville, NJ*
- Enhanced Demand IQ, a Dataiku-based forecasting tool with Power BI dashboard, to predict healthcare product demand across 3 wholesalers and 100+ distribution centers
- Developed distribution center-level forecasting models by clustering service areas and analyzing local demand patterns, improving forecast accuracy by up to 40% over national models and enabling more precise inventory planning
- Collaborated with business stakeholders to gather cross-functional feedback and requirements for iterative development
- Presented distribution center modeling approach, methodology, and findings to business stakeholders, translating technical methodology into non-technical language
- Built a neural network and custom Python node class to model supply chain flows and analyze granular demand patterns

RISE Lab at UMD **Aug. 2023 - present**
Research Assistant *College Park, MD*
- Developed statistical models in MATLAB to analyze the distribution of hurricane characteristics (e.g., heading angle, wind speed, pressure) and their influence on landfall trajectories
- Presented findings at UMD Research Symposium, earning 3rd place for Best Presentation among 50+ student projects

MassMutual **May 2024 - Aug. 2024**
Actuarial Intern *Springfield, MA*
- Created a SQL- and Excel-based analysis tool to evaluate long-term care offramp criteria, integrating data from Alation and building reusable frameworks for actuarial insights
- Presented data insights and technical documentation to over 75 actuaries in the company, translating complex analysis into actionable strategies

Ticketmaster **January 2024**
Software Engineer Intern *Reston, VA*
- Developed an automated monitoring system to detect Typeform survey exceptions used across 400+ entertainment venues in North America
- Built AWS Lambda functions in Python to process DLQ (dead-letter queue) messages, identify failures, and send real-time alerts to Slack, reducing issue response time
- Collaborated on an Agile team using the SAFe framework, participating in daily stand-ups and managing tasks in Jira
- Supported infrastructure deployment using Terraform and configured CI/CD workflows with GitLab CI YAML

PROJECTS

NLP-Based Statement Classification | *Python (Pandas, Scikit-learn, Numpy)*
- Built and evaluated multi-class classification models (Logistic Regression, Random Forest, LightGBM) in Python to predict political statement reliability, achieving 79.7% accuracy with LightGBM
- Performed end-to-end pipeline development including data cleaning, feature engineering (TF-IDF, OneHotEncoder, MultiLabelBinarizer), and dimensionality reduction (TruncatedSVD)

Netflix Dashboard | *Tableau*
- Developed an interactive dashboard to explore content consumption trends across genres and regions, enabling user-driven insights and engagement analysis