

Ellyn Ngo

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EDUCATION

Bucknell University, Lewisburg, PA

Expected: May 2026

B.S. Business Analytics; B.A. Computer Science

GPA: 3.94 / 4.0

- **Honors:** Alpha Lambda Delta Honor (\$2,000), BGS Business Honor, Michael M. & Lillian A. Fremont (\$2,000)
- **Certifications:** **Tableau** Desktop Specialist; **Microsoft Office** Specialist in **Excel, Word, PowerPoint**; **Google Advanced Data Analytics** Certificate
- **Coursework:** Predictive Analytics, Algorithm Design, Software Engineering & Design, Operating Systems, Statistics
- **Other:** Semi-Finalist in **Adobe Sales Academy** Competition 2024; **Citi Market Quantitative Analysis** Mentee (Feb - Sep 2024)

PROFESSIONAL EXPERIENCE

PMG Worldwide

6/2025 – 8/2025

Data Analytics Intern

Dallas, TX

- Built and optimized **10+** dynamic **Tableau** and **Looker Studio** dashboards to visualize cross-channel KPIs for 5 business clients (Sephora, Experian, Baylor Scott & White, Jazwares, Michaels), improving stakeholder reporting efficiency.
- Automated data workflows from **Redshift, BigQuery, and Snowflake** by leveraging **DBT Cloud (SQL, Jinja)**, categorizing and backfilling **30+** million rows of data; resolved **25%** of freshness issues and boosted SLA compliance.
- Collaborated with cross-functional teams (Client Strategy, Engineering, Media) to scope analytics projects, integrate API pipelines on Alli, our proprietary **AI** analytics insights, and design **QA** protocols that resolved **35%** of anomalies pre-launch.

EAM-Mosca

5/2024 – 8/2024

Business Intelligence and Data Analytics Intern

Hazleton, PA

(EAM-Mosca is a leading global manufacturer of high-quality, automated packaging solutions and strapping systems)

- Analyzed and enhanced **data quality** on **Salesforce** by implementing advanced **ETL processes** and defined fit rates of **30+ machine lines** utilizing **Power Query, SQL, Excel**, and advanced analytics.
- Built and maintained **6 Power BI dashboards** with **50+** visualization insights from **10+** complex datasets to analyze core business **KPIs**, saving 10 hours per week of manual reporting work and forecasting efficiency of future sales.

Office of Institutional Research & Analytics, Bucknell University

9/2025 – Present

Chatbot Developer & Data Science Intern

Lewisburg, PA

- Co-designed an **end-to-end** chatbot leveraging GPT-based language models (prompt chaining and context retention) with **LangChain, ChromaDB, FastAPI, React, Node.js** to automate course info inquiries, reducing manual response time by **70%**.
- Analyzed institution-wide MyVoice survey data from **2500+** students (administered every three years), identifying key trends in student academic experiences, incorporating the recommendations into the chatbot to support institutional decision-making.

PROJECTS

Hotel Booking Cancellation Status Prediction Model | *Python, Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn*

- Developed an extensive EDA and **predictive model** on a dataset of **119,390 hotel bookings** in **Jupyter Notebook** to identify key factors influencing cancellations and optimized using Hyperparameter Tuning.
- Compared two data science algorithms (**Decision Tree and Random Forest**), with the best AUC ROC of **0.82**.

Key Frenzy - Scrum Master | *Java, JavaFX, SceneBuilder, Adobe Photoshop, Agile, Git, Gitlab, Gradle, OOP*

- Implemented a full-stack game application using **Java** as the backend and **JavaFX, SceneBuilder** as the frontend.
- Facilitated **agile practices, conducting daily stand-ups, sprint planning and reviews** for the development of Key Frenzy, an arcade game designed to improve typing speed, responsiveness, and accuracy.

OutStyle | *React, HTML, CSS, JavaScript, Git*

- Designed with **Figma** and developed both front-end and back-end systems of a comprehensive website to promote outdoor activities and a healthier lifestyle, leveraging Edamam API to process food nutrition content data.

SKILLS

- **Coding Languages:** Python, Java, HTML/CSS, JavaScript, Dart, R, C/C++, Linux
- **Tools and Frameworks:** MySQL, Jinja, Bash, data visualization (Power BI, Tableau, Looker Studio), Figma, React/React Native, Android Studio, TensorFlow, Pytorch, Langchain, AWS, version control (Github/Gitlab), Spark, Power Automate, Airflow, Lucidchart, Jira, Adobe Photoshop, Adobe Express, Canva
- **Campus Involvement:** Asian Cultural Association – President, Vietnamese Student Organization – President, Analytics Student Leader, Bucknell Kitchen Manager, Student Affairs Advisory Board, Karate Martial Arts Club – Treasurer, K Pop Dance Club – Treasurer, International Pre-Orientation Ambassador.
- **Other:** Vietnamese (native), Korean (3 years), Japanese (2 years)