Syjane Eang

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EDUCATION

University of Maryland　　　　　　　　　　　　　　　　　　　　　　　**College Park, MD**
M.S. in Applied Economics　　　　　　　　　　　　　　　　　　　　　**Aug 2022 – May 2024**
Relevant Courses: Financial Economics, Economics Applications of R Programming, Econometrics Modeling and Forecasting

George Mason University　　　　　　　　　　　　　　　　　　　　　　　　**Fairfax, VA**
B.S. in Economics; Minor in Legal Studies　　　　　　　　　　　　　　　**Aug 2017 - Aug 2021**

SKILLS & CERTIFICATES

Certifications:　　Financial Modeling and Valuation Analyst (CFI), Professional Certificate in Data Science (HarvardX)
Skills:　　Python, R, SQL, Power BI, Data Visualization, Machine Learning, Predictive Analysis, Financial Analysis, Regulatory Reporting, Bloomberg, VBA, MS Office, Project Management, Statistical Analysis, Reuters

WORK EXPERIENCE

Zurich American Insurance Company　　　　　　　　　　　　　　　　　**Schaumburg, IL**
Senior Analytics Intern, Claims　　　　　　　　　　　　　　　　　　**May 2023 – Aug 2023**
- Analyzed regulatory and compliance challenges, developing solutions, contributing to compliance program assessments, design and implementation.
- Utilized Python to perform regression analysis on historical claims data, identifying factors influencing claims costs and durations.
- Developed Python scripts to clean, preprocess, and merge large datasets from cloud sources, ensuring high-quality data for analysis.
- Developed and presented Power BI dashboards to senior management, delivering key performance indicators on claims processing times, cost efficiencies, and employee productivity trends, providing data-driven insights that facilitated strategic decision-making.

University of Maryland, College Park　　　　　　　　　　　　　　　　**College Park, MD**
Graduate Assistant: Project Manager/Project Coordinator　　　　　　　　**Oct 2022 – May 2023**
- Designed and led the execution of a financial model to forecast program funding needs over 5 years and initiated a budget optimization project, reallocation $500,000 in funds to high-impact areas.
- Facilitated cross-departmental collaboration among Financial Aid, Math, English Departments, and local banks to synchronize efforts, resulting in the integration of interdisciplinary resources and financial tools that enhanced accessibility of the program.

Cultivating New Frontiers in Agriculture　　　　　　　　　　　　　　**Washington, D.C.**
Program Associate　　　　　　　　　　　　　　　　　　　　　　　　**Feb 2022 – Aug 2022**
- Implemented budget controls and compliance enhancements across a $75 million Sub-Saharan Africa investment portfolio projects, significantly reducing operational risks and ensuring strict compliance to individual countries regulations.
- Assisted and led training workshops for colleagues and community members in the region on access to finance and other key topics.
- Conducted competitive analysis and market trends, identifying new business opportunities and contributing to project acquisitions.

Nathan Associates Inc　　　　　　　　　　　　　　　　　　　　　　　**Arlington, VA**
Business Development Intern　　　　　　　　　　　　　　　　　　　　**Sep 2021 – Jan 2022**
- Engineered the migration of the business development tracking system using SQL and Excel to Power BI, achieving 15% boost in competitive analysis efficiency and an increase in team accountability.
- Contributed to identifying new business opportunities with USAID by conducting competitive landscape analysis and market trends, leading to the acquisition of three projects valued at over $50 million.

PROJECTS

Credit Risk Analysis
- Utilized SQL for consumer loan analysis and employed R for regression, demonstrating a 14.3% rise in default odds with a one percentage one increase in interest rates.
- Engineered a logistic regression model in R that highlighted interest rate hikes as key predictors of loan defaults and developed a Random Forest model, achieving a 20% accuracy improvement over baseline models.

Fraud Detection System
- Utilized Python to develop a machine learning model, leveraging data manipulation (pandas), visualization (matplotlib, seaborn), and interpretability (SHAP) skills to reduce false negatives by 30% and false positives by 25% in a dataset of over 500,000 credit card transactions, projected to save up to $2M annually.