

# Leon Tang

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## EDUCATION

University of Maryland, Baltimore County (UMBC) - Baltimore, Maryland  
Bachelor of Science (B.S) Information Systems – Graduate Accelerated Program

September 2022-May 2026

GPA: 3.67/4.0

Relevant Coursework: Calculus I/II, Discrete Mathematics, Applied Statistics, Database Designs I/II, Markup/Scripting Languages, Object Oriented Programming  
Principles of Management, Machine Learning for Engineers

## SKILLS

**Interpersonal:** Team Player, Leader, Hard Worker, Customer Service, Attention to Detail, Flexible, Integrity/Honesty

**Functional:** Information Technology/Systems, Business/Project Management, Scrum, Cybersecurity, Data Analyst, AI/ML, Microsoft Office

**Technical:** C++, Python, SQL, JavaScript, Linux, Swift, C#, HTML, DAX, LaTeX

## LEADERSHIP EXPERIENCE

**President** – Information Systems Security Association - UMBC Chapter

**Vice President** – UMBC Men's Rugby (Division II)

## PROFESSIONAL EXPERIENCE

*Machine Learning & Data Analytics Researcher* – University of Wisconsin – Madison

September 2024- Present

- **Collaborated with a team of 10 peers** to develop machine learning models, utilizing **gradient-boosted trees** to identify key factors impacting donation campaigns for The River Food Pantry, the **largest food pantry** in Wisconsin.
- Applied **predictive analytics and SHAP analysis** to evaluate model accuracy and interpretability, offering detailed insights into feature importance, enhancing donor engagement strategies, and improving resource allocation for the non profit organization.

*Information Technology Intern* – The Depository Trust & Clearing Corporation (DTCC) – McLean, Virginia

June 2024 – August 2024

- Collaborated the design in an **Agile** environment of a **high performance Splunk** observability dashboard for the Real Time Trade Management (RTTM) using **JavaScript, JSON, and Angular** to process and visualize over **10 million** daily messages and logs achieving a **20%** boost in system reliability and uptime.
- Architected and deployed a strategic **Power BI** dashboard to optimize treasury project oversight, incorporating advanced data analytics and real time reporting capabilities to drive decision making and enhance operational agility.

*Cybersecurity Research Assistant* – UMBC Department of Information Systems – Baltimore, Maryland

January 2024 – June 2024

- Assisted in a research project under Dr. Zhiyuan Chen focusing on the application of **deception-based attacks** in IoT, specifically in **autonomous vehicles**, drones, and **intelligent support systems**.
- **Authored** an **IEEE** literature review analyzing advancements in cybersecurity, emphasizing on challenges and solutions in deploying deception-based strategies.

*Business Technology Intern* - Agile Care Enterprises LLC, Baltimore, Maryland

February 2024 – May 2024

- Engaged in **SystemizeU Business Builders** Internship Program, honing **entrepreneurial skills** for securing and excelling in internships by adopting a consultative business growth approach.
- Acquired **business system optimization skills** through mentorship and a targeted **7-part series**, enhancing professional excellence and organizational impact.

## PROJECTS

*UMD InfoChallenge EY Cybersecurity Login Analysis* – **\*Winner of the Most Outstanding Cybersecurity Project\***

- **Led a team** in the Ernest & Young 2024 University of Maryland, College Park (UMD) InfoChallenge focusing on cybersecurity through the analysis of authentication logs to assess internal controls for a **SaaS** company using **C++** for data manipulation and **Microsoft Excel** for **pivot table** insights, resulting in **winning the competition**.
- Developed and implemented **hash tables, vectors, and maps** in C++ and advanced pivot table analyses in Excel to analyze and interpret cybersecurity data to enhance the understanding of login behaviors and identify potential security breaches.

*Survey on Cybersecurity Deception Techniques in Autonomous Systems* - **\*Two Time Award Winning Research\***

- Conducted a **comprehensive survey** on deceptive techniques targeting Mobile Autonomous Systems (MAS), exploring advanced **cybersecurity challenges** and methods to manipulate MAS sensors and decision-making algorithms using AI and machine learning.
- Identified critical security **gaps in existing research** and proposed robust defense mechanisms to protect MAS against **sophisticated multi stage attacks**, significantly enhancing strategies for safeguarding automated systems in transportation, defense, and healthcare sectors.

*Student Dropout Prediction with SVMs & Data Normalization* **\*IEEE 2024 International Conference on Big Data Paper\***

- Orchestrated a **pivotal research project** utilizing **Support Vector Machines (SVMs)** to predict student dropout rates at universities, employing a dataset from UC Irvine to explore the impact of nine diverse data normalization techniques including MinMaxScaler and OneHotEncoder.
- Boosted model accuracy by up to **10%**, achieving **standout** predictive results with F1 scores surpassing **0.77** through rigorous data preprocessing, significantly improving the strategic planning of **educational support interventions**.

## ACHIEVEMENTS

- Haud Collumi Scholarship: **Athletic Scholarship** for academic, **leadership**, and rugby excellence at UMBC.
- Dean's Fellow Scholarship: Recognized for exceptional **academic excellence** and performance.
- National Collegiate Rugby (NCR) – Scholastic All American

