YEN LIN (ALLEN) LU

Brooklyn, New York | (765)-771-0363 | allen930526@gmail.com | https://www.linkedin.com/in/allen-lu526/ | 1allenlu.github.io/

EDUCATION

New York University   Expected May 2026
Bachelor of Science in Math & Computer Science; NYU Tandon Dean's List   GPA: 3.73/4.00
University of California, Irvine   Sep 2022 - Jun 2023
Bachelor of Science in Math; UCI Dean's Honor List   GPA: 3.99/4.00
Relevant Coursework: Machine Learning, Operating Systems, Design and Analysis of Algorithms, Databases, Computer Architecture, Object Oriented Programming, Data Structure & Algorithm, Applied Statistics, Math Modeling

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PROJECTS

Loan Default Predictor | Python, Sklearn, Matplotlib, NumPy   **Jan 2025 - May 2025**
- Implemented logistic regression, SVM, and neural network models to predict loan defaults with 92.1% accuracy
- Preprocessed 32K+ data entries using imputation, one-hot encoding, scaling, and PCA to reduce bias by 20%
- Improved F1 score by 12% through feature engineering, regularization tuning, and model architecture optimization

Airline Ticket Reservation System | Python Flask, SQL, HTML, CSS   **Sep 2024 - Jan 2025**
- Designed an online flight booking system with distinct functionalities and UI for customers and airline staff accounts
- Developed a Flask-based API with MySQL, efficiently managing client requests and database interactions
- Created an intuitive user interface using HTML and CSS to enhance user experience

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EXPERIENCES

NYU IT- *Student Product Support Analyst;* New York, New York   **Oct 2024 - Present**
- Test and troubleshoot NYU Brightspace updates pre-deployment, ensuring smooth transitions for 80,000+ users
- Develop training materials and documentation while managing user support and delivering live Brightspace training

Private Mathematics Tutor - *Tutor;* Brooklyn, New York   **Jul 2022 - Present**
- Deliver tailored math tutoring services in mathematics and design practical math topics for hands-on application
- Facilitate the success of over 10 tutees by assisting them in passing introductory calculus courses and exams

SportsBuddy.ai - *Software Engineer Intern;* Boston, Massachusetts (Remote)   **Jun 2024 - Aug 2024**
- Developed and launched a responsive website using HTML, CSS, and JavaScript, attracting 1,500+ daily views
- Conducted product testing and resolved 20+ client issues, boosting performance and user satisfaction
- Created and optimized technical videos, amassing 30,000+ views and streamlining product onboarding

Hersheen Enterprise - *Engineering Intern*; Taiwan   **Jul 2023 - Aug 2023**
- Redesigned the company's website using HTML and WordPress, leading to an increase of 1000+ daily viewers
- Monitored water jet cutting robot machines and automatic 3D gluing machines to ensure quality and accuracy
- Created 3D carpet models in Catia for manufacturing and assembled complex structures by integrating multiple parts

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LEADERSHIP

Applied Math Club - *Secretary / Treasurer*; Brooklyn, New York   **Jun 2024 - Present**
- Oversee a $2,000 budget per semester, ensuring accurate financial records for the newly established club
- Plan and coordinate 5+ external events, including workshops, panels, and mixers to build the club's reputation
- Record meeting minutes and maintain comprehensive records for the club's long-term credibility

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SKILLS

- **Programming Language & Tools:** Python, C++, HTML, C, R, SQL, CSS, JavaScript, Git, NumPy, LaTeX
- **Software**: Microsoft Office Suite, G Suite, MATLAB, ERP, Catia, Adobe Lightroom, Adobe Photoshop, Canva
- **Language:** English (Native), Mandarin (Native)