ALEXANDRA NGUYEN

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EDUCATION

University of California, Irvine   June 20XX
Bachelor of Science, Mathematics
GPA: 3.74; Dean's Honor List: 5 quarters

EXPERIENCE

UC Irvine Mathematics Department, Irvine, CA   September 20XX – Present
Undergraduate Research Assistant

- Analyze large datasets using R and MATLAB to investigate stochastic processes patterns
- Apply machine learning algorithms to predict time series behavior with 87% accuracy
- Co-authored research paper on financial modeling applications; submitted to UCI Undergraduate Research Journal

Goldman Sachs, New York, NY   June 20XX – August 20XX
Quantitative Research Summer Intern

- Developed Python-based risk assessment models for fixed income derivatives, improving calculations by 15%
- Collaborated with senior analysts to implement Monte Carlo simulations for a $2B equity portfolio
- Automated daily reconciliation processes using SQL, reducing manual processing time by 3 hours
- Presented volatility forecasting findings to portfolio management team of 8 professionals

PROJECTS

Algorithmic Trading Strategy   March 20XX – May 20XX

- Designed momentum-based trading algorithm using Python and 10 years of S&P 500 data
- Achieved 14% annual return with Sharpe ratio of 1.8 in backtesting simulation

Credit Risk Assessment Model   January 20XX – March 20XX

- Built logistic regression model in R to predict loan defaults using 50,000 borrower records
- Achieved 82% prediction accuracy and created dashboard to visualize risk metrics

LEADERSHIP EXPERIENCE

Undergraduate Mathematics Committee   September 20XX – Present
President

- Lead executive board of 8 officers organizing events for 150+ mathematics majors
- Coordinated industry networking events with JPMorgan, Two Sigma, and D.E. Shaw speakers
- Secured $3,000 in funding and established peer tutoring program for 40 students

Actuarial Society   January 20XX – June 20XX
Vice President of Professional Development

- Organized exam prep sessions achieving 85% pass rate among 25 members
- Facilitated partnerships with 5 insurance companies for internship opportunities

SKILLS AND INTERESTS

Computer: Python, R, MATLAB, SQL, Excel, Bloomberg Terminal, Tableau
Languages: Fluent in Vietnamese, Conversational in Spanish
Interests: Hiking, competing in chess tournaments, volunteering at local food banks