

Phillip Nguyen

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EDUCATION

University of Illinois Urbana-Champaign

Urbana-Champaign

Bachelor of Science, Major in Statistics, Minor in Computer Science

May 2025

- **GPA:** 3.64/4.00
- **Related Coursework:** Statistical Modeling, Data Structures & Algorithms, Time Series Analysis, Survival Analysis, Statistical Learning, Unsupervised Learning, Artificial Intelligence, Object-Oriented Programming, Data Analysis

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, C, SQL, R, JavaScript

Frameworks & Tools: React.js, Node.js, TensorFlow, PyTorch, OpenCV, Bootstrap

Data & Cloud: MySQL, AWS, Google Cloud, Jupyter Notebooks, Excel, SAS

Version Control & IDEs: Git, IntelliJ, Eclipse, Android Studio, PyCharm

EXPERIENCE

University of Illinois Urbana-Champaign

Urbana-Champaign

Loomis Physics Laboratory Assistant

Aug 2021 – Current

- Engineered custom testing rigs, reducing electronics testing time by 13%, improving accuracy and efficiency.
- Managed and calibrated lab equipment, ensuring optimal performance for 50+ undergraduate and advanced physics experiments.
- Diagnosed and resolved lab equipment malfunctions, reducing downtime by 19% and improving research efficiency.

PROJECTS

Kaggle Competition: Linking Writing Processes to Writing Quality

Urbana-Champaign, Illinois

Team Leader

Nov 2023 – Dec 2023

- Developed predictive models using Random Forests and Gradient Boosting, achieving 12.4% improvement in accuracy.
- Engineered features and optimized hyperparameters, reducing model error by 22%.
- Implemented statistical analysis and data preprocessing to improve prediction reliability

SQL: Trackbase

Urbana-Champaign, Illinois

Individual

Jun 2023 – Aug 2023

- Built a full-stack music catalog application using HTML, CSS, JavaScript (React.js), MySQL, and Google Cloud.
- Designed a quiz-based recommendation system, leading to a 25% increase in query efficiency.
- Deployed the system on Google Cloud, ensuring 99.9% uptime and seamless user experience.

Credit Card Fraud Detection

Chicago, Illinois

Individual

Mar 2023 – May 2023

- Analyzed 1M+ financial transaction records, implementing SMOTE oversampling to improve fraud detection in unbalanced datasets.
- Enhanced fraud detection recall by 8%, using cross-validation and hyperparameter tuning to optimize the model.
- Employed Random Forest and XGBoost to maximize detection efficiency.

Stock Predictor

Urbana-Champaign, Illinois

Team Lead

Dec 2021 – Feb 2022

- Trained mathematical models to predict stock price trends using Naive Bayes, Neural Networks, and Linear Regression Time Series algorithms
- Scripted the predictive stock price model and obtained a prediction accuracy of 90.07%

ACTIVITIES AND LEADERSHIP

Pulse Tech Conference

Urbana-Champaign

Competition Coordinator

Aug 2022 – Feb 2024

- Hosted software and hardware competition for 50+ participants, tested and evaluated solutions to optimize competition workflows and efficiency.
- Provided technical support and assistance to participants, troubleshooted issues promptly to ensure smooth competition proceedings.