

# Christopher Lam

790 Charnwood Drive Wyckoff, NJ 07481 | (201) 783-2720 | [christopherlam790@gmail.com](mailto:christopherlam790@gmail.com)

LinkedIn: <https://www.linkedin.com/in/christopher-lam-8b256922a/>

Website: <https://christopherlam-portfolio-website.vercel.app>

GitHub: <https://github.com/christopherlam790>

## SUMMARY

---

Aspiring Software/Data Engineer with hands-on experience in full-stack development, data visualization, and applied machine learning. Strong interest in building scalable backend systems and intuitive, user-focused interfaces. Proficient in Python, SQL, and React, with a data-driven approach to problem-solving.

## EDUCATION

---

### PURDUE UNIVERSITY

West Lafayette, IN

May 2025

#### Bachelor of Science

Majors: Computer Science & Philosophy

Minors: Supply Chain Engineering Technology & Statistics

**Relevant Coursework:** Database Management, Financial Mathematics, Linear Regression, Statistics, Data Mining & Machine Learning, Econometrics-style Analysis, Information Systems, Operations & Supply Chain Analysis, Algorithms

## WORK EXPERIENCE

---

### PERATON LABS

Basking Ridge, NJ

Jun 2024 – Present

#### Cyber Research Intern (Software Systems)

- Designed and implemented a full-stack system (Python/JavaScript) for geospatial visualization of military COAs, integrating backend APIs and dynamic front-end dashboards to improve system efficiency and decision accuracy.
- Created dynamic charts to effectively communicate COA information, enhancing user understanding and driving informed decision-making.
- Engineered a customizable COA generator that automated test data creation, improving testing throughput by over 50%.
- Collaborated with a 11-person Agile team using Git and CI/CD pipelines for feature integration and testing.

#### Cyber Research Intern (Frontend Data Visualization)

Jun 2023 – Aug 2023

- Created Python-based tools enabling real-time visualization of network performance and cost-relevant metrics.
- Improved data-processing efficiency by 40% by optimizing system load and modularizing code.
- Built customizable charts and displays used for internal reporting and cost-impact assessments.

## PROJECTS

---

### EV Sports Bet Analyzer

Wyckoff, NJ

May 2024 – Jun 2025

#### Project Creator

- Developed an analytics tool that applied web scraping, statistical modeling, and expected-value optimization to evaluate real-world data-driven decisions across over 1,500 test cases.
- Integrated linear regression and control charts to plot past performance and predict future results, storing structured and unstructured data through MongoDB.
- Achieved an approximate 67.5% accurate pick rate and average risk-to-reward ratio of 1 to 0.85 \$USD, resulting in a final positive EV of \$0.2487 per bet placed.

## SKILLS

---

**Languages:** Python, SQL, R, JavaScript

**Data Engineering and Processes:** ETL/ELT Pipelines, Apache Spark, Parquet, Data Modeling, Batch Processing, Data Validation

**Frameworks & Backend:** Django, Flask, Node.js

**Databases:** PostgreSQL, MongoDB, Firebase

**Cloud & Infrastructure:** AWS (EC2, S3, IAM), Docker

**Tools & Practices:** Git, GitHub, CI/CD Pipelines, REST APIs, Unit Testing, Object-Oriented Programming

**Data Analysis & ML Foundations:** Pandas, NumPy, TensorFlow, PyTorch

**Methodologies:** Agile, Scrum, DevOps