Christopher Lam

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SUMMARY

Aspiring Software Engineer with hands-on experience in full-stack development, data visualization, and applied machine learning. Passionate about scalable backend systems and intuitive user interfaces. Proficient in Python, Java, and React.

EDUCATION

PURDUE UNIVERSITY   **West Lafayette, IN**
Bachelor of Science   **May 2025**
Major in Computer Science & Philosophy; Minors in Supply Chain Eng. Tech. and Statistics
Relevant Coursework: Data Mining and Machine Learning; Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Information Systems; Linear Regression

WORK EXPERIENCE

PERATON LABS   **Basking Ridge, NJ**
Software Engineering Intern (Software Systems)   **Jun 2024 – Present**
● 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.

Software Engineering Intern (Frontend Data Visualization)   **Jun 2023 – Aug 2023**
● Deployed a modular Python GUI supporting real-time visualization of network data, reducing load time by 40%.
● Incorporated customization controls and data visualization options, promoting a heightened user experience

UNIVERSITY PROJECT

NLP Presentation Analyzer   **West Lafayette, IN**
Team Lead   **Jan 2023 – May 2023**
● Led a 4-person team to design and implement an NLP-based tool that analyzes spoken presentations and evaluates delivery quality
● Built NLP-based analyzer using Flask and TensorFlow to evaluate presentation quality across 10+ delivery metrics; improved scoring accuracy by 15% using weighted sentiment features.

TECHNICAL PROJECTS

EV Sports Bet Analyzer   **Wyckoff, NJ**
Project Creator   **May 2024 – June 2025**
● 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, Java, JavaScript, C
Frameworks: React, Django, Flask, Node.js
Databases: PostgreSQL, MongoDB, Firebase
Tools & Concepts: Docker, AWS, Git, GitHub, CI/CD Pipelines, REST APIs, Unit Testing, OOP
Machine Learning: TensorFlow, PyTorch, Pandas, NumPy
Methodologies: Agile, Scrum, DevOps