Lawrence Liu

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EDUCATION

Purdue University West Lafayette, IN

BS in Computer Science, BS in Data Science, Minor in Economics *Expected Graduation: May 2027*

Coursework: Object-Oriented Programming, Programming in C, Multivariate Calculus, Linear Algebra, Discrete Math, Statistics, Probability, Computer Architecture, Data Structures & Algorithms, Systems Programming

EXPERIENCE

Data Scientist Intern Aug 2023 – May 2024

Bayer, The Data Mine *West Lafayette, IN*

- Partnered with product stakeholders in Agile sprints to architect and deploy predictive models for optimizing plant yield, ensuring high scalability and reliability
- Engineered data pipelines that cleansed and transformed datasets exceeding 15,000 records using Python and R, streamlining the data preprocessing workflow
- Developed and integrated machine learning models (Random Forest, Neural Networks, kNN, and Linear Regression) that consistently achieved over 70% accuracy

Student Office Staff September 2024 – May 2025

Purdue University *West Lafayette, IN*

- Managed daily front desk operations for a residence hall, handling 200+ guest interactions weekly and maintaining a 95% customer satisfaction rate.
- Analyzed and tracked 200+ weekly guest interactions using Excel, identifying trends to improve front desk efficiency by 30%.
- Maintained a database of 500+ resident records, ensuring 100% accuracy and compliance with privacy policies.

PROJECTS

Automated Package Check-in | *Python, PyTorch, PyTesseract, SQL*

- Developed a Python-based package tracking system utilizing PyTorch for image processing and PyTesseract for OCR, automating extraction of names and tracking numbers from 90% of packages
- Implemented at current front desk job, improving productivity by 100%
- Integrated the system with the existing SQL database to seamlessly store and organize extracted package data, enhancing data accessibility and workflow efficiency.

Spotify Statistics | *Javascript, Python, React, Spotify Web API, Vite*

- Developing a full-stack Spotify statistics tracker using JavaScript, Flask, and Node.js with the Spotify Web API to provide real-time music analytics and personalized user insights.
- Implementing PKCE authentication and deploying on Netlify, enhancing security and ensuring user experience.
- Designing interactive data visualizations using Chart.js and maintaining version control with GitHub, resulting in a user-friendly UI and robust performance.

ACTIVITIES

Korean Club Vice President November 2023 – Present

- Oversaw executive board of 10+ and managed events for 100+ general members
- Increased engagement leading to an increase of 50% member acquisition over past years
- Organized big-little groups and 20 events per semester for club members, including dance workshops with celebrity guests

TECHNICAL SKILLS

Languages: Java, Python, SQL, C, C++, Javascript, HTML/CSS
Frameworks/Libraries: React, Node.js, Flask, JUnit, Pandas, NumPy
Tools: Git/GitHub, VS Code, Tableau, Jupyter Notebook, Docker, Visual Studio, MS Office, PowerPoint, Teams, Agile
Soft Skills: Communication, Adaptability, Problem Solving, Teamwork, Leadership
Languages: English, Spanish, Japanese, Cantonese