Jayden Lee

Cupertino CA/West Lafayette IN

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Education

Purdue University *West Lafayette, IN*

B.S. Data Science *Graduation: May 2025*

Dean's list & Semester honors *GPA: 4.0/4.0*

Skills

Programming Python, HTML/CSS, JavaScript, Java, R, SQL

Technologies Pandas, NumPy, Selenium, Matplotlib, Scikit-learn. TensorFlow, PyTorch, Kera, ReactJS, Node.JS, jQuery

Skills OOP & OOD, Agile Scrum Development, Debugging, Documentation, Working in Cross Functional Team

Professional Experience

The Data Mine - Purdue University *West Lafayette, IN*

Undergraduate Data Science Researcher *Aug 2022 - Current*

- Collaborated with CDC to analyze melatonin product labels to better understand reasons for pediatric melatonin overdose.
- Conducted data analysis and visualization of data from NIH dietary supplement database using R
- Developed a web scraper to scrape label data information from Amazon using Selenium
- Worked under an Scrum Agile Environment

Purdue Office of Undergraduate Research *West Lafayette, IN*

Software Undergraduate Research Assistant *Jan 2023 - Dec 2023*

- In the process of writing a research paper on the conclusions and the methodologies of my research findings in The Data Mine
- To complete a paid research project with a faculty mentor, work with a peer research mentor, and present work at the Fall Expo

Projects

Pathfinding Visualizer - Dijkstra's Algorithm

Python, Pygame

- Created path finding visualizer using Dijkstra''s Algorithm to find the shortest distance between two points on a grid
- Used Pygame to create a GUI that allows the user to create obstacles between start and finish position, and implemented visualization of the running algorithm
- In the process building a map navigator using Google Map API and applying Diajkstra's algorithm

Customer Segmentation

Python (Pandas, Numpy, Matplotlib, Seaborn)

- Used dataset preprocessing techniques to develop a dimensionality reduction algorithm using PCA and Kernel PCA
- Effectively performed Customer Segmentation using K-Means Clustering
- Visualized and evaluated the clustered customers using Matplotlib and Seaborn

Automated Stock Data Candlestick Chart Dashboard

Python (Pandas, Selenium, Beautiful Soup, Matplotlib)

- Web scraped and stored real time stock data from Yahoo Finance using Selenium
- Built an updating local dashboard displaying Stock information such as price, volume, 1-year target using Matplotlib

Personal Portfolio Website

HTML, CSS (Bootstrap, Sass), JavaScipt (jQuery, three.js)

- Built a highly interactive personal website using HTML, CSS, and JavaScript
- Implemented frameworks and libraries such as Bootstrap, jQuery, and three.js, and honed front end development skills

Coursework

Courses: Advanced Python Programming, Data Structures in Python, Object Oriented Programming in Java, Programming Methodologies in C++, Statistics, Systems Development, Information Technology Architectures, Multivariate Calculus, Plane Analytic Geometry And Calculus II, Responsive Web Design, Deep Dive Into Modern Web Development