



John P. Langenderfer

Data Scientist

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Education

Boston College - Morrissey College of Arts & Sciences

Chestnut Hill, MA (Fall 2019 - Spring 2023)

- Bachelor of Science: Major - Computer Science; Minor - Finance
- Relevant Coursework: Computer Science I (Python), Computer Science II (Java), Computer Organization (Verilog), Computer Systems (C), Logic and Computation, Randomness and Computation, Formal Verification, Physics I & Physics II (Calculus-based), Algorithms, Natural Language Processing, Number Theory, Multivariable Calculus, Linear Algebra

Experience

Data Science Intern // Spavia International

Denver, CO (Summer 2021, Summer 2022)

- Implemented automated reporting system using Google Apps Script and Google Analytics API, resulting in the efficient and accurate delivery of monthly reports to over 50 franchisees.
- Developed a comprehensive website for comparing data extracted from FDDs (Franchise Disclosure Documents), allowing for easy comparison of different spa franchises.
- Optimized SEO for multiple websites across the organization, resulting in improved search engine rankings, increased traffic, and higher conversion rates, utilizing tools such as Google Analytics and SEMrush.

Head Soccer Coach // Coerver Colorado

Denver, CO (Summer 2016- Summer 2019)

- Managed dedicated groups of various ages as a leading instructor of the world's number one soccer skills camp.
- Acquired competent teamwork skills and invaluable communication, teaching, and interpersonal skills.
- Earned four promotions within the company as a direct reflection of continued hard work and discipline.

Leadership

Founder // everybodyplayscharity.com

Denver, CO (Summer 2015 - Present)

- Created a non-profit organization focused on guaranteeing every student that opportunity to play a sport.
- Filed and obtained 501(c)(3) organization status prior to fundraising nearly \$20,000 to advance our mission.
- Coordinated deals with two soccer clubs in order to directly impact and benefit children and teenagers in my community.

Projects

Founder, Lead Developer // CNN-based Skin Cancer Detection

Boston, MA (Fall 2019 - Spring 2020)

- Developed Convolutional Neural Network (CNN) models to detect skin cancer using 10,000 training images, using both a custom architecture and transfer learning using models such as ResNet, DenseNet, and VGG.
- Achieved an accuracy of over 90% in classifying different classes of skin cancer, demonstrating the potential of CNNs in assisting in early detection of skin cancer.

Founder, Lead Developer // LSTM Stock Price Predictor.

Boston, MA (Spring 2021)

- Developed a model using Long Short-Term Memory (LSTM) to predict stock price movements with high accuracy. The model was trained on historical stock prices and financial indicators, and was able to accurately predict the direction of stock prices for the next day with over 70% accuracy.

Honors & Awards

- Regis Jesuit High School Magna Cum Laude Academic Award (2015-2019)
- All-State Academic Team (4 Years) and All-Conference First Team (2 Years)

Toolkit

Programming & Software

Python, Javascript, HTML, CSS, React, SQL, Xcode, Google Colab, Beautiful Soup, TensorFlow, PyTorch, Scikit-learn, NLTK, spaCy, Tableau, GitHub, Gitlab, Django

Activities & Interests

Music, Photography, Volunteering/Community Service, Reading, Traveling, Cooking, Guitar, Piano, Soccer, Skiing, Golf