

# Colin Arndt

Data Scientist & Quantitative Analyst | San Diego, CA

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## SUMMARY

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Data science professional skilled in transforming raw data into meaningful information using data-oriented programming languages and visualization software, extracting and analyzing information from large structured and unstructured datasets using data mining, data modeling, natural language processing, and machine learning. Quantitative strategies to inform securities investing, equities investing, pricing, or valuation of financial instruments and statistical models for risk management, asset optimization or relative value analysis. Collaborative team player with ownership mentality and a track record of delivering the highest quality strategic solutions to resolve challenges and propel business growth, honed through extensive experience in computer information systems and management.

## EDUCATION

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### M.S. Data Science and Financial Technology

*University of London*

Oct. 2020 – Sept. 2022

Remote

### B.A. Psychology

*Sonoma State University*

Sept. 2002 – May 2007

Cotati, CA

## PROJECTS

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### Asset Correlations before and after the COVID-19 Crash

- Quantified the post-COVID spike in asset correlations using Python, Numpy and Pandas
- Validated price data from open-source yfinance library by creating a web scraper in BeautifulSoup
- Visualized results using Heatmaps with Seaborn and Rolling correlation window plots with Matplotlib

### Detecting Counterfeit Bank Notes using Supervised K-means Clustering

### Implementing n-fold Cross Validation K-nearest Neighbor Classification from Scratch

## EXPERIENCE

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### Marketing & Analytics (Business Intelligence)

*Pilates on Harrison*

Nov. 2018 – May 2021

Remote

- **Offered partnership share** in recognition of outstanding contributions to business
- Advised successful transition to online service delivery during COVID crisis, with no loss in monthly revenue
- Implemented client surveys, processing results from 200+ responses with key conclusions

### Computer Support Specialist / Manager

*mac tonic*

Nov. 2015 – Sept. 2019

Eugene, OR

- **Promoted to management** as a result of leadership and technical skills
- Slashed diagnostic procedure times, yielding 25% increase in service profits
- Overhauled service documentation system resulting in 20% increase in staff efficiency

### Computer Support Specialist

*C3 IT Solutions*

Sept. 2007 – Nov. 2015

Madison, WI

- Consulted on solutions for data backups and security, virtualization, kiosk devices, VPNs and more
- Developed front-end websites in WordPress and Drupal with ecommerce and CRM functionality
- Provided Search Engine Optimization and Online Reputation Management services