

Kevin Elkin

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EDUCATION

University of California, San Diego

La Jolla, CA

Bachelor of Science in Data Science, Minor in Business/Finance

Sep 2016 – Dec 2020

- **Relevant Coursework:** Data Analysis and Inference, Data Structures, Web Mining and Recommender Systems, Systems for Scalable Analytics, Data Visualization, Data Management, Probability and Statistics in Data Science, Artificial Intelligence: Probabilistic Reasoning and Decision-Making, Theoretical Foundations of Data Science, Business Analytics, Financial and Managerial Accounting, Enterprise Finance, Business Ethics, Product Marketing and Management, Global Business Strategy
- **Expected graduation:** December 2020
- **Major GPA:** 3.64

EXPERIENCE

Qualcomm

San Diego, CA

Financial Data Science Intern

Jun 2019 – Sep 2019

- Automated 2 monthly dashboards and reports on WAN Optimization and Robotics Process Automation (RPA) using Tableau and Cisco's Technology Business Management model (TBM) for the Office of the CIO.
- Utilized Tableau to create various metrics, data visualizations, and dashboards and directly pulled data from Splunk in real time.
- Communicated 25+ data visualizations, metrics, and designs across multiple teams within IT through weekly meetings to ensure the dashboard(s) fit the client's needs; awarded a QualStar for outstanding work and achievement.
- Generated ideas and methodologies for a predictive analytics project requiring machine learning, Tableau, and NLP.

Allied Universal

Denver, CO

LiveSafe Database Administrator

Dec 2018 – Jun 2019

- Monitored multiple databases to track all 15,000+ tenants and company personnel in San Francisco, Denver, and Dallas.
- Redesigned and implement innovative ways to monitor and inform personnel by categorizing users through 22 custom geofences.
- Constructed an extensive 50+ page user manual and training guide to educate current and future employees about LiveSafe.

Brookfield Properties

Denver, CO

Central Operations Officer

Jun 2017 – Dec 2018

- Oversaw 20+ computer systems in a control setting environment (Metasys, C-CURE 9000, Avigilon, EMS, LiveSafe, etc.) and communicated to security, engineering, and local authorities via radio.
- Advised engineering departments of costly building issues which resulted in saving \$20,000+.

Providigm

Denver, CO

Data Analyst Intern

May 2016 – Sep 2016

- Analyzed employee satisfaction survey data across 14 different departments (150+ employees) using MS Excel to quantitatively measure employee engagement and satisfaction rates.
- Conducted qualitative research to address the lack of employee satisfaction and engagement which led to an improvement in management and employee relations.

PROJECTS AND RESEARCH

HinDroid Malware Classification (Link: <https://github.com/KevinElkin/Hindroid>)

Jan 2020 – Present

- Created a data ingestion pipeline that extracts, transforms and loads (ETL) benign and malicious Android applications from the apkpure.com (sitemap) and decompiles the applications into smali code.
- Utilized graph embeddings to create a heterogeneous information network (HIN) to classify benign and malware Android apps.
- Calculated kernels to represent relationships between different API calls that encompasses invoke type, package type, code block, and applications.
- Trained and tested a LinearSVM model on a dataset containing 1,000 benign and 1,000 malware apps (80-20 split) and assessed results based on an F1 score of .981, precision, recall, accuracy, and a confusion matrix.

Stock Screener and Recommender

May 2019 – Sep 2019

- Developed a stock screener and prediction algorithm in python by using various technical indicators including the following: MACD, RSI, CCI, Bollinger Bands, Volume, etc.
- Collected data and S&P 500 tickers via web-scraping (Beautiful Soup) and through the yahoo finance API for daily data pertaining to the open, high, low, close, and adj. close of a stock.
- Implemented an interactive candlestick and volume chart for each ticker of the S&P 500 for the past 10 years using mpl_finance.

SKILLS AND INTERESTS

- **Languages/Technologies:** Proficient in Python, Pandas, NumPy, scikit-learn, Beautiful Soup, Java, SQL, Dask, Spark, AWS, Tableau, MS Excel, MATLAB, Git, SolidWorks; familiar with R, HTML, CSS, JavaScript, D3, Highcharts, C, Swift, Firebase.
- **Activities:** DS3 – Data Science Student Society, Promo app developer (full-stack)