Ellek Linton

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Education

University of California, Berkeley	**GPA: 3.65**
B.A. in Data Science, *Emphasis on Business Analytics*	*(May 2020)*

Coursework: *Machine Learning, Neural Networks, Data Structures, Computer Programs, Probability, Business Analytics, Linear Algebra, Differential Equations, Multivariable Calculus, Data Ethics*

Work Experience

PayPal Inc.	**July 2020 – Present**
Backend Software Engineer (Java, Node.js)	*San Jose, CA*

- Developed & maintained REST Java applications to onboard new PayPal accounts for sellers and merchants
- Utilized GitHub, Jenkins, Raptor, & Maven to drive an effective testing and deployment pipeline
- Engaged in strict code security guidelines to meet rigorous financial compliance regulations

Instructure Inc. / Canvas	**May 2019 – July 2020**
Revenue Operations Data Scientist	*Salt Lake City, UT*

- Tested & deployed custom automated Python tool that managed account & opportunity funnel alignment
- Saved Instructure over *$250,000* by optimizing go-to-market team focus and increasing pipeline generation
- Built automated Python package to clean & enrich Salesforce data to ensure more accurate business analytics
- Identified & merged 20,000 duplicate Salesforce accounts through string canonicalization and fuzzy matching

Data Science Society at UC Berkeley	**August 2018 – May 2020**
Project Manager & Consultant	*Berkeley, CA*

- Cleaned, compiled, and merged data from 3 distinct raw datasets, totaling 350,000 rows & 200 columns
- Managed team of 6, analyzed large datasets, and performed machine learning to improve stock price predictions
- Visualized data trends, patterns, and correlations; presented findings & inferences to corporate executives

Personal Projects

Baus Playlist Maker *(on iOS App Store)*	**May 2019 – Present**
Google Cloud, iOS (Swift), Python, Pandas, Numpy, Java	*Berkeley, CA*

- Engineered machine learning model from scratch to take in one *seed* song and generate playlist of similar songs
- Overcame *curse of dimensionality* (13 dimensions) and improved runtime from $\Theta(n)$ to $\Theta(\log(n))$
- Directly integrated with Spotify API for seamless user experience and immediate playlist listening availability
- Authored code independently, including APIs, model training/prediction, unit tests, and efficiency tests
- Structured & optimized original database of over *800,000* songs with quantified song features and attributes

Authentic8r *(on iOS App Store)*	**March 2018 – May 2019**
iOS (Swift), Python, Tensorflow, Keras, Google Cloud	*Berkeley, CA*

- Built convolutional neural network with Tensorflow to predict whether a sneaker is counterfeit or authentic
- Captured & labelled over 12,000 images for model training and validation, achieved 85% validation accuracy
- Attained 2,000+ phone-verified users, collected over *50,000* images from users for continuous model refinement
- Developed cloud-based implementation of Tensorflow model for real-time data-driven model updates

Skills

Programming Languages: *Python, SQL, Java, Swift, Objective-C, Lisp*

Libraries: *Tensorflow, Keras, Jupyter, Pandas, Numpy, Seaborn/Matplotlib, Regex, Scikit-Learn*

Skills: *Machine Learning, Neural Networks, Recommendation Algorithms, Optimization, Data Modelling, Data Engineering, Software Engineering, Program Optimization, Unit Testing, Agile, REST, GraphQL*