

Ellek Linton

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Education

University of California, Berkeley

May 2020

B.A. in Data Science, *Emphasis on Business Analytics*

Coursework: *Programming, Software Engineering, 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

Software Engineer, Apple Pay (NodeJS, Typescript, Java)

San Francisco, CA

- Built full-stack scalable PayPal + Apple Pay Integration for web and test tool to streamline end-to-end testing
- Collaborated across multiple teams and domains, including high-volume checkout and orders APIs
- Developed backend REST APIs to facilitate Apple Pay transactions at massive scale

PayPal Inc.

July 2020 – Present

Software Engineer, Merchant Onboarding (Java, Node.js, GraphQL, SQL)

San Francisco, CA

- Architected, built, & deployed brand-new GraphQL API, facilitating onboarding of over 10,000 new merchants
- Tech-lead to expand our product into more countries, enabling \$35M+ of new revenue opportunities
- Built and maintained high-volume REST APIs to onboard new merchants, serving over 500 requests per minute
- Led/managed team scrum processes as scrum master, planned/prioritized tasks to ensure on-time deliverables

Edify.ai

July 2021 – Present

API Architect and Lead Engineer (Typescript, Node.js, Azure)

San Francisco, CA

- Designed API architecture and built/deployed entirely new REST API platform from the ground up
- Created schema validation framework from scratch to enforce schema and ensure consistent user experience
- Built several API services and endpoints, each integrating with auth, schema validation, and testing frameworks
- Built continuous integration pipeline to ensure stable builds and support automated continuous deployment

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: *Java, Node.js, Typescript, Python, SQL, Swift*

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, APIs, GraphQL*