

AMANDA LEE

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EDUCATION

Brown University

Computer Science (Machine Learning track)

ACT: 35, GPA: 4.0
Providence, RI (2019 - 2023)

- Courses: Machine Learning, Deep Learning, Computer Vision, User Interfaces and User Experience, Computer Systems, Linear Algebra, Statistics
- Teaching Assistantships: Deep Learning (CS147), Computing Foundations (CS112), Managerial Decision Making (ENGN900)
- Leadership: Entrepreneurship Program (Engineering Lead), Van Wickle Ventures (Partner), Chinese Association (executive)

App Academy

Full-Stack Software Development

San Francisco, CA (Summer 2018)

EXPERIENCE

Machine Learning Engineering and Data Engineering Intern

Apple

Beijing, China (May 2021 - Aug 2021)

- Predicted Apple Watch sales per store using GBDT and 200+ features with 86% accuracy; results are used to evaluate store performance, detect fraud, and determine incentives
- Ranked Chinese cities into 10 tiers by applying K-Means clustering to economic and demographic data; results are used to aid store expansion and store-to-store comparisons
- Led discussion of these projects with senior VPs; reviews of the results led to full model deployment

Software Engineering and Data Engineering Intern

HackNY Fellow at Chartbeat (content analytics)

New York City, NY (May 2020 - Aug 2020)

- Created interactive, customized newsletters using React, Pandas, and Matplotlib that display engagement analytics for 200+ enterprise customers, initiating a new revenue channel for the company and achieving a 63% open rate
- Developed user support systems in Django and React for Chartbeat's flagship analytics platform, reducing Customer Success' workload by 10%

Full-Stack Software Engineer

BuildZoom (marketplace for construction, YC '13)

San Francisco, CA (Sep 2018 - Aug 2019)

- I took a gap year to work full-time as a software engineer in SF; my goal was to gain work experience (and life experience!) in the professional world before starting college
- Overhauled the Sales CRM, replacing legacy logic and code with a Rails/React interface with a pipeline view and advanced filtering/search capabilities powered by Elasticsearch; 100+ sales reps spend 6 hours/day in this tool

Conference Speaker at the International Conference on Big Data and Education (ICBDE)

Investigating Chronological Correlations Between Asthma and Climate Data

Honolulu, HI (Mar 2018)

- Leveraged Watson Analytics and NIH/EPA data to establish correlations between emissions and asthma rates

PROJECTS

Leeway · Full-Stack Web Messaging Application, inspired by Slack

React, Redux, Rails, Action Cable, AWS S3, Webpack, PostgreSQL

tinyurl.com/leeway-git

- Implemented Websocket channel subscription via Action Cable, allowing for live message feeds with real-time updating
- Hardened authentication with React Router protected routes, BCrypt password hashing, and model level constraints

Language Modeling · Word Sequence Prediction

Tensorflow (Keras), Python, Wikipedia English corpus

tinyurl.com/lang-model

- Preprocessed the Wikipedia English dataset with lemmatization, 'UNK'ing, and other parsing techniques
- Implemented a semantic prediction model, similar to predictive text on an iPhone, using an LSTM architecture as well as a trigram, achieving perplexities of 75 and 86

SKILLS

Python, JavaScript, Ruby, Java | React, Redux, GraphQL, HTML/CSS, Figma | Rails, Django | Jupyter, Pandas, Tensorflow, SQL