JIAYUE LI

SOFTWARE ENGINEERING || UC BERKELEY CS 2020

CONTACT INFO

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SKILLS

LANGUAGES

Java | Python | SQL | C | Swift | HTML | CSS | C++ | ScalaTest | Javascript

TOOLS & FRAMEWORKS

Flask | Sci-Kit Learn | Sci-Kit Image | Git | Google Firebase | Spring | Pandas | Postgres | AWS Lambda | Solidity

COURSEWORK

CURRENT:

EE16A: Designing Info Devices and Systems
CS168: Internet Architecture
CS61C: Great Ideas in Computer Architecture
Stat 135: Concepts of Stats

COMPLETED:

CS170: Efficient Algorithms
CS186: Database Systems
CS188: Artificial Intelligence
CS61B: Data Structures
CS70: Discrete Math
Stat 134: Probability
CS198-77: Blockchain Decal
CS9F: C++ for Programmers
Math 54: Linear Algebra

WORK EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER INTERN May 2018-Present
EXPEDIA GROUP San Francisco, CA

- Built a recommendations microservice with Flask that predicts the next type of travel product a customer will purchase after booking a flight
- Trained, tuned, and tested a machine learning model to classify flight bookings in scikit-learn, using features extracted from past booking data, increasing accuracy of customer booking predictions from ~55% to 72%
- Integrated microservice into team's recommendation and qualification services built in Java and Spring, maintaining code coverage through Scala

RESEARCH ASSISTANT Oct. 2018-Present
BERKELEY INSTITUTE FOR DATA SCIENCE Berkeley, CA

- Developing a model to identify bee species with image classification
- Utilizing scikit-image for image preprocessing and feature engineering, and scikit-learn to build, train, and evaluate different classification models

iOS DEVELOPMENT INTERN June 2017-Aug. 2017
MYLIVE San Diego, CA

- Developed front-end views in our map-based social media iOS app and collaborated with teammates to design an efficient Google Firebase database

EDUCATION / ORGANIZATIONS

UNIVERSITY OF CALIFORNIA, BERKELEY Graduation: May 2020
COMPUTER SCIENCE, STATISTICS MINOR

DIRECTOR OF TECHNOLOGY, BERKELEY CODEOLOGY May 2018-Present
Implemented a new project-based division and assisted project leaders within our tech committee to develop projects from scratch, focusing on areas of software engineering ranging from web development to machine learning

PROJECT DEVELOPER, BERKELEY LAUNCHPAD Jan. 2018-Present
Collaborated with team to build imagination-augmented artificial intelligence model based on a DeepMind paper and trained an agent to play breakout.

PROJECTS

RAINY DAY: A service using forecasts of unexpected weather to recommend indoor activities to Expedia travelers. Built with DynamoDB, AWS Lambda, and SES.

DATA RESCUE: Project for BIDS research to recover information from a developer forum for scientific computing library SciPy. Extracted and cleaned data from Postgres database and created documentation around user posts using Sphinx.

SURROUND SOUND: An application that allows a user to take a picture of their surroundings to generate a related playlist. Tags the image using computer vision API and classifies the images with Naïve Bayes and topic association.