Daisy Liu

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Education

Master of Computer and Information Technology	University of Pennsylvania	Jan. 2020—Present
Bachelor of Science (Psychology)	University of Maryland	Feb. 2013--Dec. 2014

Technical Skills

Languages: Java, Python, C++, JavaScript (Node.js/Express.js)

Technologies: MySQL , MongoDB, Swift , React , jQuery , TypeScript , Bootstrap , HTML, CSS , Git, AWS
Design Tools: Adobe Illustrator , Photoshop , InDesign , Dreamweaver , Adobe XD

Experience

Developer /UI / UX Designer   Xaxis   July 2014 - Present

•Developed a new content validation feature for the third-party developer service platform to prevent inappropriate content from reaching customers, deployed to production and improved customer satisfaction.
•Added new APIs to developer experience (DX) and customer experience (CX) platform services in Java, utilized various AWS technologies, i.e. DynamoDB, SNS, SQS, etc.
•Developed keyword flagging algorithm to balance between precision and performance

• Worked closely across different departments: Product, Marketing, Customer Success, Engineering to rapidly ideate and produce multiple UX/UI concepts, clickable prototypes, A/B tests, validating web or mobile app interfaces, or any related design tasks.
• Performed all functions of the product design lifecycle, including research, concepts, wireframes, prototypes, pixel-perfect UI, documentation, and testing.
• Partnered with product managers, business analysts and engineers to oversee the user experience of a product from conception until launch and beyond.

Associate Designer   Elie Tahari   Feb 2012 - April 2014

• Design seasonal collection and maintain men's and ladies' outerwear line under Tahari and Elie Tahari licensed label.
• Utilized Adobe Creative Suite to develop prints, tech-packs, CADs as well as presentation board.
•Work with Private label clients like Kohl's and Costco for new season collection, develop color concept, prints, CADs, tech packs, hangtags and initial samples.

Projects

Book Review Web Application

• Developed the application based on MEAN stack (MongoDB, Express, AngularJS, and NodeJS) in a team
• Implemented functionalities including searching books by title, author, most commented and best/ worst rated with a combination of MySQL and MongoDB queries, integrating user registration and login, integrated with Google OAuth, and user profile management, and implementing book info display, etc.
• Preprocessed and cleaned data, built and populated relational databased on AWS RDS and non-relational database MongoDB on Atlas, primarily using Jupyter Notebook with Python's NumPy module
• Integrated webpage with social media such as Twitter livestream and post, hosted app on AWS EC2 instance

Botanist Android App

•Botanist is a multi-screen android application that enables users to manage plants growth with features like watering, fertilizing records, display plant info and weather info, Google calendar reminders and more
•Implemented multiple activities to display different screens with various functionalities and interactions
•Integrated with Google Firebase database for backend data storage, update and maintenance

Assorted Artificial Intelligence and Machine Learning Course mini-projects

•Implemented a spam filter using Naïve Bayes Classification with 97% accuracy, then improved to 99.5%accuracy with various features including bigrams, capitalization, digit, punctuation, token length, header, etc.
•Built a language model to generate random text that resembles the source text file using Markov Model
•Developed a part-of-speech tagger using Hidden Markov Model (HMM), then computed probabilities of observations using forward, backward algorithms, and improved HMM parameters with learning algorithm
•Implemented two varieties of standard perceptrons: binary classifier and multiclass classifier