

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 Sept. 2011--June 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 2017 - 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 2015 - April 2016

- 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 database 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