

# MICHELLE DENG

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## EDUCATION

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### Carnegie Mellon University

M.S. Educational Technology and Applied Learning Science (METALS)

August 2018

### Carnegie Mellon University

B.S. Cognitive Science, Minor Computer Science

Dean's List High Honors, Fall 2016 & Spring 2017

## EXPERIENCE

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### Software Engineer at Amazon

📅 December 2020–Present

📍 Seattle, WA

- Led the development of frontend features for a new web page on the FleetEdge Device Management Team to manage the lifecycle of over 10k FleetEdge devices installed on Amazon delivery trucks. Used React in Typescript for the frontend, and AWS CDK, AppSync, RDS, CloudFormation, and Glue in the backend. Designed and created high-fidelity mocks for the website UI.
- Led the development of additional features for the lifecycle device management website and created a planning document with a breakdown of all the milestones required as well as a timeline with milestone completion dates based on a headcount of three engineers.
- Led a team of three engineers on the Alexa Shopping List team to deliver new organizational features: sorting, filtering, and new UI/UX in the Amazon app utilizing React Native and Redux in Typescript.
- Created a work-back plan and met with business bi-weekly for status updates, sent bi-weekly status updates to the Alexa Shopping leadership, and created a high level design document to create a new, modular, and extensible framework for the new organizational features and a plan to refactor the existing codebase to accommodate the new changes.
- Refactored and implemented a new header in the Shopping List. The old components were refactored to be more modular and follow the up-to-date pattern of functional components in React.



### Software Engineer at Wayfair

📅 September 2018–November 2020

📍 Boston, MA

- Selected to assist Descriptions and Naming team in creating a CRUD service in C# and .net to serve data to storefront.
- Led project to restructure data sent to product display page to be used in UI redesign for better customer experience through research, building proof-of-concepts, and designing an implementation plan.
- Mentored new hire engineers in month-long onboarding project. Answered questions, helped debug issues, reviewed code, and attended their final presentations.
- Refactored React/Redux tool from two pages to one by restructuring the Redux store and optimizing backend endpoints in PHP for the Composites team to streamline workflow and user experience.
- Helped design composite SKU generation process and its integration in existing SKU creation tool to facilitate suppliers' creation of products in a centralized tool.
- Rebuilt and laid groundwork for two legacy tools using React/Redux and PHP for the Upsells and Cross-sells team.

## PROJECTS

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### ViMi-TV

April 2020–December 2020

- Building a website for users to video chat and play online games together using Firebase, React, and Node.js.

### 4U

2017 CMU TartanHacks

- Leveraged the IBM Watson SDK, Yelp API, and OpenCV to develop a voice-controlled, facial recognition personalized assistant that can help plan budget and recommend places to eat based on stated food preferences.

## COMMUNITY

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### Read to a Child

📅 November 2019–March 2020

📍 Boston, MA

- Traveled to an elementary school every other week to read out loud to an underserved second grade student to foster a love of reading and improve literacy skills.

## TECHNICAL SKILLS

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**Proficient**      Typescript, React, Redux, AWS AppSync, Java, Git  
**Experienced**    AWS CDK, Python, SQL, VIM