

# MICHELLE DENG

## 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 Wayfair

September 2018–Present

📍 Boston, MA

- Selected to assist Descriptions and Naming team in creating a CRUD service in C# and .net to serve data to storefront.
- Leading 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 legacy tool and laid groundwork for new tool using React/Redux and PHP that allows internal users to view, update, create, and delete classes and products for the Upsells and Cross-sells team.
- Built and laid groundwork for a new tool for internal users and suppliers to manage their collections in a React/Redux frontend and PHP and SQL backend.



### Teaching Assistant at Carnegie Mellon University

Fall 2017–Spring 2018

📍 Pittsburgh, PA

- Held weekly office hours, answered student questions, and graded homework assignments for CS course Practical Data Science.
- Graded homework, in-class assignments, and quizzes, and attended class to evaluate and user-test students' projects for the HCI course Designing Human-Centered Software.



### Research Assistant for OpenChirp

Spring 2017

📍 Pittsburgh, PA

- Used Angular2, HTML, and CSS to build the landing page and various features for the website and dashboard for an IoT device.



### Software Engineer Intern at InsideSales.com

Summer 2016

📍 Provo, UT

- Built a new Angular2 app for the data science team to monitor the performance of training models for lead-scoring over time.
- Coded a Python backend to pull and organize data from HBase, store it in MongoDB, then serve it on a Flask app to be retrieved by the Angular2 app.

## PROJECTS

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### ViMi-TV

April 2020–Present

- Building a website for users to video chat and play online games together using Firebase 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

Python, Javascript, React, Redux, PHP, SQL, Node.js, Git, L<sup>A</sup>T<sub>E</sub>X

### Experienced

Firebase, C#, .net, HTML/CSS, GraphQL, Java, Android, Angular2, VIM, Adobe Illustrator, Adobe Photoshop