David Ding

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EDUCATION

NORTHWESTERN UNIVERSITY   Evanston, IL
Bachelors of Science + Masters of Science - Computer Science   Sept 2017 - June 2022

Coursework: Data Structures and Algorithms, Intro to Computer Systems, Intro to Artificial Intelligence, Machine Learning, Mathematical Foundations of Computer Science, Human Computer Interaction, Database Systems, Programming Languages

Awards: Questbridge National College Scholar, AP Scholar w/ Distinction, National Merit Scholarship

SKILLS AND TECHNOLOGIES

- **Programming Languages:** Python, Java, C, SQL, HTML, CSS, JavaScript
- **Other Technologies:** React, PyTorch, AWS, GIT, LaTeX

PROFESSIONAL & PROJECT EXPERIENCE

MAPIFY   Evanston, IL
Independent Project   Mar 2019
- Developed a website that displays a user's top Spotify artists, along with a map showing performance dates in the US.
- Implemented Spotify, Ticketmaster, and Google Maps **API**'s to allow users to sign in, and link to and display events.
- Used Knockout **Javascript** framework to modify the model-view of the web page, along with **HTML**, and **Bootstrap** for functionality and design.

EXPLORER AI   San Francisco, CA
Software Engineering Intern   Jun 2018 - Sept 2018
- Architected and built front-end dashboard to visualize street information (lanes, crosswalks, traffic lights) for autonomous vehicle engineers using **React**, **Deck.gl**, **Geojson** data and **Mapbox**'s API.
- Collaborated with machine learning engineers to identify construction zones from video and display them on a map, with accompanying video from **S3** bucket.
- Implemented a toggle feature that allowed users to switch between map views (LIDAR, 2-D map) and select street features to be displayed (construction zones, bike lanes).

GOOGLE COMPUTER SCIENCE SUMMER INSTITUTE   Mountain View, CA
Participant   Jul 2017 - Aug 2017
- Created Doublecrux, a website that allows users to have constructive one on one discussions on a topic, with the ability to recurse on points of debate.
- Implemented **Google Users API** for authorized login.
- Designed a recurse button that allowed users to create new discussion pages based on subtopics that are linked to each other.

LEADERSHIP

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)   Northwestern University
President + Project Manager   Dec 2018 - Sept 2019
- Mentored student team in developing a web applications that made use of Northwestern's courses **API** to allow students to buy and sell textbooks for their classes.
- Organized annual software project showcase for over **70** students and •20 industry judges.
- Scheduled workshops, technical programs, and community events for campus EECS community.
- Reached out and scheduled industry professionals to serve as judges and sponsors for annual project showcase.