Ying Wang

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Experience

Xometry **Bethesda, MD**

Software Engineer | Web Services, Full Stack December 2016 - Present

- Leading company-wide testing, linting, documentation, and deployment modernization efforts.
- Led a team of three to refactor pricing algorithms, contributing to a performance boost of ~80%.
- Prototyped front-end expedited shipping feature, contributing to primary expedite functionality which generated >$10K in its first week in production.
- Migrated parts of internal ERP software from Jinja / Angular / jQuery mix to React, boosting developer productivity by >5x and improving page performance by >3x.
- Migrated parts of landing page from WordPress to home-built solution by developing Craft CMS templates, allowing sales and marketing to add site content without developer input while scaling to 4,000+ requests per day.
- Assisted sales and marketing team in adding new partner activity monitoring abilities through Hubspot, and operations team in migrating shipping APIs to Shippo.

DukeMakers **Durham, NC**

Co-founder / President January 2014 - December 2014

- Recruited board of directors, who raised >$10K from alumni donations for equipment, and ~40 club members.
- Obtained 1600 sqft. makerspace and funds for two new 3D printers from Duke AIAA and Duke Robotics.
- Raised $2500 to make 3D printed lanterns for Pratt Engineering's 75th Anniversary Gala.
- Popularized and supported Duke Innovation Co-Lab's Innovation Studio: https://colab.duke.edu/studio.
- Designed and prototyped 3D printed biosand filter concrete mold, enabling 1000x savings vs. steel molds.

Chrysler Controls and Robotics Laboratory, Oakland University **Rochester, MI**

Research Assistant May 2013 - August 2013

- Prototyped a method to control an industrial robot with an LED tracker and Microsoft Kinect with MATLAB / Simulink, improving robot training speeds by >2x.

Education

Duke University (Durham, NC) 2012 - 2016

B.S.E, Electrical and Computer Engineering (3.23/4.00)