Ying Wang

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Website • GitHub • LinkedIn

Summary

Software Engineer interested in helping people make things.

In high school, Ying wanted to learn more about economics and finance. He read through a college economics textbook during his freshman summer, and went on to be MCEE EconChallenge State Champion in 2010 and 2011.

In college, Ying worked as a research assistant in an industrial robotics lab at Oakland University during his freshman summer. There, he found an interest in robotics and manufacturing, and founded a 3D printing student organization on campus the next year. Today, Duke has one of the world's largest and best-equipped collegiate maker spaces, the Innovation Studio. After graduating and embarking on a multi-country tour of Asia, Ying found a company working with manufacturing and web technologies called Xometry, and works there as a software engineer.

Currently, Ying's professional interests reflect his background in economics and finance, robotics and manufacturing, and the Internet.

Experience

Xometry   BETHESDA, MD

Software Engineer   *Dec 2016 – present*

Xometry quotes and outsources CNC and 3D printing parts for manufacturing companies. Reporting to CTO, Scott Rothrock. Migrated parts of internal ERP front-end to React. Templated current static landing pages to use Craft CMS. Retrofitted parts of quoting flow front-end with new styling and functionality. Helped update shipping provider logic to use Shippo. Added logic to forward Xometry Partners (manufacturing shops Xometry outsources to) data to marketing team via Hubspot. Refactored some database models to use domain access objects. Assisted in production deployments. Reviewed pull requests from all web systems. Prototyped front-end expedite feature on quoting flow, mobile push notifications service for iOS application, and Xometry Partners onboarding workflow.

Please refer to my LinkedIn profile for a more complete list of work experiences along with recommendations.

Education

Duke University   DURHAM, NORTH CAROLINA

B.S.E, Electrical and Computer Engineering   *2012 – 2016*

Concentration in Computer Architecture, beginner-level experience with digital systems, integrated circuits, and embedded systems. Picked up some skills in Java, Python, C, and various assembly languages.

International Academy   BLOOMFIELD HILLS, MICHIGAN

High school, International Baccalaureate diplomas   *2008 – 2012*

Focused on economics and finance.

Skills

Technical expertise: Production experience with Python, PHP, and JavaScript. Front-end production experience with view frameworks like React and Angular 1, state management frameworks with MobX and Redux, testing frameworks with Karma and Enzyme, and build tools with Webpack and Gulp. Good knowledge of bash, git, and various templating languages (Markdown, LaTeX). Some experience with Ruby, Go, C, Node, and Lisp. Working proficiency with AWS (S3, EC2, CloudFront, Route 53).

Natural languages: English *(mother tongue)*, Mandarin Chinese *(limited working proficiency)*, German *(beginner)*, and French *(beginner)*.

Interests

Non-exhaustive and in alphabetical order: travel, design, cooking, rock climbing, philosophy, history, software engineering (methodologies).