

# Minwei Xu

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Portfolio: <http://mwxu.me>

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## WEB DEVELOPER

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Sophomore at Johns Hopkins University. Web developer with experience in front-end and dabbling in data science. Passionate about programming and devoted to open-source projects. Extensive experience with React.js, Redux, react-router, GraphQL, D3.js. Familiar with Java, C/C++, Python, Node.js, iOS Development, and Linux commands.

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## EDUCATION

<b>JOHNS HOPKINS UNIVERSITY</b> - Baltimore, MD	BS in <b>Computer Science</b>	Sep 2016 - June 2019 (Expected)
<b>UC DAVIS</b> - Davis, CA	BS in <b>Computer Science</b>	Sep 2015 - June 2016
• Cum. GPA: 3.97 / 4.00	• Major GPA: 4.00 / 4.00	• Dean's Honor List (All Quarters)

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## PROFESSIONAL EXPERIENCE

NEWA TECH -- Shanghai, China **Full Stack Developer (Intern)**, June to August 2016

In charge of the development of the application. Launched the first demo of the application from scaffold in **four weeks**.

- Created robust **Python** code to preprocess and clean the data, render multiple plots, and auto select **machine learning** models according to the given data.
  - Connected the **Node.js** server with jupyter server. Used **Redux** to control the data flow. Developed interactive **React** data grids.
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## RESEARCH

JOHNS HOPKINS CAREY BUSINESS SCHOOL **Researcher Assistant** Fall 2016 - Baltimore, MD

Worked with Doctor Shweta Gaonkar to process and query big dataset.

UC DAVIS VIDI RESEARCH GROUP **Undergraduate Researcher** Fall 2015 - Davis, CA

Worked in Professor Kwan-Liu Ma's Visualization & Interface Design Innovation research group.

**Living Liquid** - An interactive visualization of marine animal migration using a tangible object and touchscreen interface. Currently on exhibition at Exploratorium. Developed by Express, Backbone, and Gulp.

**Neuroscience Research** - Worked with a neuroscience group to explore better data visualization methods. Developed by D3.js

SJTU BASICS LAB (DATA VISUALIZATION) **Undergraduate Researcher** Summer 2015 - Shanghai, China

Worked with Professor Xiaojun Dong at Shanghai Jiao Tong University. Developed by D3.js

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## AWARDS

- 2016 3<sup>rd</sup> Place Overall HopHacks  
**Orgo Savior** - An **Augmented Reality iOS** app for the 3D visualization of chemical molecules. Developed by Vuforia and Objective-C.
  - 2016 Most Innovative Hack | Best UX With Amazon Alexa HackDavis  
**Chrome Voice Assist** - Web Browsing for the Disabled  
A chrome extension that can control the browser by giving vocal commands to Amazon Echo and read the summary of the page back to the user, developed by Express, Firebase, and Bluemix.
  - 2016 1<sup>st</sup>/80 UC Davis Algorithm Hackathon
  - 2015 Division 1 Honorable Mention ACM-ICPC Pacific Northwest Region
  - 2015 Best Collaboration Hack Using Moxtra HackingEDU  
**SpeechHacks** at HackingEDU 2015 - Speech Improvement Web Application. Developed by Express and Bluemix.
  - 2015 2<sup>nd</sup>/50 Microsoft Coding Competition, UC Davis
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## PERSONAL PROJECTS

- **AllCommunication** 2016 - A web application that can translate English to American Sign Language.
  - **CrunchBase Analysis** 2016 - A server that can easily query the complex crunchbase data.  
Developed by GraphQL, Express, MySQL, and sequelize.
  - **Realtime Chat Application** 2016 - a realtime chat app developed by express, socket.io, React, Bootstrap, and MongoDB.
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## CONTRIBUTIONS AND VOLUNTEERING

- **Computer Science for Kids** | Volunteer | 2015 Fall | Taught 40 Maxwell Rhoda Elementary School students to program.
- **angle-to-direction** | **Author** | An npm package with 1500+ downloads.
- **hackathon-starter** | **Major Contributor** | A boilerplate for Node.js web applications with 16000+ stars.
- Contributed to D3.js, React.js, Contest Management System (200+ stars), Mac for Developer (900+ stars), and Zhihu Search Engine with a scraper and an auto-recommendation feature.