Minwei Xu

(530)746-1225 • mxu31@jhu.edu
Portfolio: http://mwxu.me
Github: https://github.com/vanshady
Linkedin: www.linkedin.com/in/minweixu

FULL STACK DEVELOPER

Sophomore at Johns Hopkins University. Full-stack developer with dabbling in data science and data visualization. Passionate about programming and devoted to open-source projects. Extensive experience with React.js, Redux, react-router, GraphQL, D3.js and Express. Familiar with Python, C++, Node.js, R and Linux and Git commands.

EDUCATION

JOHNS HOPKINS UNIVERSITY – Baltimore, MD — BS in **Computer Science** — Sep 2016 – June 2019 (Expected)
UC DAVIS – Davis, CA — BS in **Computer Science** — Sep 2015 – June 2016

- Cum. GPA: 3.97 / 4.00
- Major GPA: 4.00 / 4.00
- Dean's Honor List (All Quarters)

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 data grids by **React**.

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.

- Set up the Express server, and rebuilt the Gulp pipeline. Created an algorithm to locate and visualize the fiducial panels.

Neuroscience Research – Worked with a neuroscience group to explore better data visualization methods.

- Developed an interactive D3.js interface to display the regions of brain.

SJTU BASICS LAB (DATA VISUALIZATION) **Undergraduate Researcher** Summer 2015 – Shanghai, China
Worked with Professor Xiaoju Dong at Shanghai Jiao Tong University.

- Utilized D3.js to visualize the chemical analysis data of wine and the customer survey data of a hotel.

AWARDS

- 2016 Most Innovative Hack | Best UX With Amazon Alexa — HackDavis
- 2016 1st/80 — UC Davis Algorithm Hackathon
- 2015 Division 1 Honorable Mention — ACM-ICPC Pacific Northwest Region
- 2015 Best Collaboration Hack Using Moxtra — HackingEDU
- 2015 2nd/50 — Microsoft Coding Competition, UC Davis

PERSONAL PROJECTS

- **CrunchBase Analysis** 2016 – A server that can easily query the complex crunchbase data.
  Developed by GraphQL, Express, MySQL, and sequelize.
- **Chrome Voice Assist** at HackDavis 2016 – 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.
- **Realtime Chat Application** 2016 – a realtime chat app developed by express, socket.io, React, Bootstrap, and MongoDB.
- **SpeechHacks** at HackingEDU 2015 – Speech Improvement Application
  A website that can analyze and score a speech. Integrated with Moxtra to get real-time feedback from other users.

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.