Minwei Xu

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WEB DEVELOPER

Sophomore at Johns Hopkins University. Front-end developer with experience in back-end and dabbling in data science. Passionate about programming and devoted to open-source projects. Extensive experience with React.js, Redux, D3.js. Familiar with Node.js, Nginx, Docker, SQL, Redis, Java, C/C++, Python, and Linux commands.

EDUCATION

JOHNS HOPKINS UNIVERSITY – Baltimore, MD   BS in **Computer Science**   Sep 2016 – June 2019 (Expected)
GPA: 3.7 / 4.0   Dean's Honor List (All Quarters)

UC DAVIS – Davis, CA   BS in **Computer Science**   Sep 2015 – June 2016
GPA: 4.0 / 4.0   Dean's Honor List (All Quarters)

PROFESSIONAL EXPERIENCE

NEWA TECH -- Shanghai, China **Full Stack Developer,** 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 the data, render plots, and auto select **machine learning** models accordingly.
- Connected the **Node.js** server with jupyter server. Used **Redux** to control the data flow. Developed interactive **React** data grids.

RESEARCH

JOHNS HOPKINS CAREY BUSINESS SCHOOL   **Researcher Assistant**   Fall 2016 – Spring 2017 – Baltimore, MD
Worked with Doctor Shweta Gaonkar. Processed a big dataset. Built a robust web scraper and parsed the data.

UC DAVIS VIDI RESEARCH GROUP   **Undergraduate Researcher**   Fall 2015 – Davis, CA
Worked in Professor Kwan-Liu Ma's Visualization & Interface Design Innovation (ViDi) 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 Xiaoju Dong at Shanghai Jiao Tong University. Developed by D3.js

AWARDS

- 2016   Honorable Mention   ACM-ICPC Mid-Atlantic Region
- 2016   3rd Place Overall   HopHacks
  Orgo Savior - An **Augmented Reality iOS** app for the visualization of molecules.
- 2016   Most Innovative Hack | Best UX With Amazon Alexa   HackDavis
  Chrome Voice Assist – A chrome extension that can control the browser by Amazon Echo.
- 2016   1st/80   UC Davis Algorithm Hackathon
- 2015   Division 1 Honorable Mention   ACM-ICPC Pacific Northwest Region
- 2015   Best Collaboration Hack Using Moxtra   HackingEDU

PERSONAL PROJECTS

- **Realtime Chat Application** 2017 – A realtime chatroom. Developed with DigitalOcean Cloud Server, Docker, Nginx, Redis, Socket.io, React.js (Server-side Rendering), Redux, and Express.
- **University** 2016 – A dashboard for the statistics of university data, developed with Material-UI, D3.js, MySQL and Spark (Java).
- **AllCommunication** 2016 – A web application that can translate English to American Sign Language.
- **CrunchBase** 2016 – A query server of the complex crunchbase data, developed by GraphQL, Express, MySQL, and sequelize.

CONTRIBUTIONS AND VOLUNTEERING

- **SiliconHacks** | Organizer | 2017 Spring | a hackathon based in the Silicon Valley
- **Computer Science for Kids** | Volunteer | 2015 Fall | Taught 40 Maxwell Rhoda Elementary School students to program.
- **angle-to-direction | Author |** An npm package with 2000+ downloads.
- **hackathon-starter | Major Contributor |** A boilerplate for Node.js web applications with 18000+ stars.
- **CMS | Translator |** A contest management system for IOI and other contests.
- **Contributed** to D3.js, React.js, and Zhihu Search Engine.