

TIANNONG ‘SKYLER’ DONG

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EDUCATION

M.S. (Geosciences) *The University of Texas at Austin, Austin, Texas* August 2020

B.S. with Honors (Geology major, Physics minor) *Beloit College, Beloit, Wisconsin* May 2016

CODING EXPERIENCE

GitHub Label Manager Plus (Client-side web app)

- Oversaw and tracked the project with GitHub issues, pull requests, Kanban board and Slack
- Developed the web app with *JavaScript*, *jQuery* and *Ajax* to migrate GitHub repository labels and milestones via HTTP requests to *GitHub API*
- Implemented responsive design with *Bootstrap-Material-Design* and *SCSS*

Personal Websites (Full stack and DevOps)

- **Front-end:** gen3.skylerdong.com and **back-end:** api.skylerdong.com (MERN stack)
 - Implemented plugin architecture to modularize the UI, API and the database
 - Transcompiled *JavaScript EC6* syntax to *EC5* with *Babel* to maximize compatibility
 - Back-end API that connects front-end website to cloud database (*MongoDB Atlas* on *AWS*), built with *Node (JavaScript)*, *Express*, *Apollo Server*, *GraphQL* and *Babel*
 - Enforced strict static type checking with *TypeScript React*
 - Exploited the power of *SCSS* with variables, maps, mixins and modules
 - Implemented continuous integration with version control (Git), linting (Eslint), testing (Jest & Travis CI), and deployment (Git Hook)
- **gen2.skylerdong.com (LEMP stack)**
 - Dynamically generated HTML pages with server-side rendering (*PHP*)
 - Created a photography gallery coupled with a *MySQL* database of metadata of photos
 - Improved UX with lazy-loaded images and responsive design (*Bootstrap* and *SCSS*)
- **Google Cloud virtual machine instance**
 - Independently set up and managed web server (running on Linux CentOS 8)
 - Communicated with server via SSH and deployed code via Git Hook

Linux Ubuntu Post-Installation Bash Script

- Automated program installations, development environment setups and system configurations

SKILLS

Design & Office: • Adobe Illustrator & Photoshop • Microsoft Word, Excel, & PowerPoint

Languages: • English (*fluent*) • Mandarin Chinese (*native*)

ANALYTICS EXPERIENCE

Graduate Research Assistant

August 2016 – Present

Institute of Geophysics, The University of Texas at Austin

- Developed programs to import, parse, analyze and visualize data in *MATLAB* and *Python*
- Constructed 3D model mockups in *Adobe Illustrator* and technical drawings in *AutoCAD*

LEADERSHIP

Treasurer, *Beloit Student Congress, Beloit College*

January 2013 – May 2015

- Created macro-enabled spreadsheets to conduct annual budget appropriations of \$330,000
- Launched a \$30,000 funding platform that stimulated over 30 brand new student-led projects

President, *Geology Club, Beloit College*

January 2014 – May 2014

Co-Editor of Opinions Page, *School newspaper, Beloit College*

January 2014 – May 2014

President, *Chinese Club, Beloit College*

August 2013 – May 2014

AWARDS & HONORS

- First place in Late Career Master's Student Best Poster Award, *Jackson School of Geosciences, The University of Texas at Austin* (January 2019)
- Thompson Observatory Prize in Astronomy and Astrophysics, *Beloit College* (May 2016)
- Outstanding Teaching Award as a Laboratory Assistant (Geology), *Beloit College* (April 2015)