

# JONATHAN WILDING

jonathan.r.wilding@gmail.com ◇ (385)482-5644

jonathanwilding.com ◇ linkedin.com/in/j-wilding ◇ github.com/j-wilding

## EDUCATION

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### B.S., Mathematics

Apr. 2018 - Apr. 2021

*Brigham Young University, Provo, UT*

- Software Development Emphasis

## SKILLS

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Python	Typescript	SQLite	MongoDB	Linux	Git	C++
Data Structures	Django	NumPy	Vue.js	Node.js	React.js	Tailwindcss
Linear Algebra	JavaScript	CSS	HTML			

## EXPERIENCE

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### Web Development - Research Assistant

Sep. 2020 - May 2021

*Information Systems Dept., Brigham Young University, Provo, UT*

- Designed and developed an experiment to test and analyze participant interruptive multitasking performance, using Vue.js, Express.js, and MongoDB.
- Drove collaboration by sharing progress and insights in weekly stand-up meetings.

### Machine Learning Support - Research Assistant

Oct. 2019 - Jun. 2020

*Mechanical Engineering Dept., Brigham Young University, Provo, UT*

- Built and maintained a JupyterHub Notebook server on RHEL with an Apache reverse proxy for a team of several data scientists.

### Mongolian Teacher

Sep. 2018 - Sep. 2019

*Missionary Training Center, Provo, UT*

- Created and maintained a website to simplify and centralize area resources and materials.
- Led weekly teacher coordination meetings.

### Product Quality Control and Regulatory Teammate

Jan. 2018 - Apr. 2018

*Golub Corporation, Schenectady, NY*

Jan. 2015 - Dec. 2015

- Built JavaScript web application for several managers to automate the new nutrition label validation process.
- Improved data entry efficiency over 300% with Microsoft VBA scripting.

## PROJECTS

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### Multiple Choice Form Content Management System ([forms.jonathanwilding.com](https://forms.jonathanwilding.com))

Apr. 2021

- Developed a full-stack, multiple-choice form creation and management system, with Vue.js, Express.js and MongoDB.

### The Movie Game ([movies.jonathanwilding.com](https://movies.jonathanwilding.com))

Mar. 2021

- Created a front-end actor-movie game with JavaScript, which queries the TMDb API.

### SVD Image Compression

Nov. 2019

- Built python class to compute SVD of a matrix, using Numpy and Scipy libraries. Applied SVD to compress image data by reducing data complexity on the matrix level.