# THOMAS BACK

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**BS in Computer Science · Japanese Minor · Northern Arizona University - May 2018**

## PROJECTS *(MORE AT https://github.com/tjb295)*

### SMART SHOP GROCERY LIST APPLICATION – *Lead Front End Developer*
**TECH STACK(**REACT-NATIVE/ROUTER-FLUX/REDUX/THUNK/FIREBASE/FLEXBOX/JEST**)**

- Collection of thousands of grocery product data achieved through designing detailed front-end architecture and UX allowing users swift and rapid entry of product information while shopping.
- Strict adherence to minimally impactful render methods such as ListView with a DataSource yielded near instant rendering of of RESTful Firebase data.
- Reduced query time of collection of 500+ store's geo-coordinates to seconds by implementing Hierarchical Triangular Mesh Algorithm to index database.

### SPIFF PASSE CLOTHING ECOMMERCE SITE – *Jr. MEAN Stack Developer*
**TECHSTACK(**NODEJS/ANGULARJS/BOOTSTRAP/FIREBASE/ANGULARFIRE/MONGODB**)**

- Reactive MVC model, front-end provided by AngularJS with responsive Bootstrap styling.
- Designed admin interface allowing business owner to manage products persisted in back-end.
- Routed HTTP requests through NodeJS server that handled responses for CRUD operations on MongoDB product database to complete purchases and catalog updates in respect to business rules.

## EXPERIENCE

**JUNE 2016 – JUNE 2018**
**STUDENT SYSTEM ADMINISTRATOR -** *USGS ASTROGEOLOGY*

- Scripted dynamic remote software installations used daily on Windows hosts with Python's Subnet library invoking PowerShell commands.
- Configured and deployed RedHat, Ubuntu builds weekly with Ansible Playbooks to maintain compliance with frequent DOI security and software rollouts.

## SKILLS

**Front-End Frameworks:**
- HTML5, CSS, JavaScript, AngularJS, Angular4, React-Native, ReactJS, AJAX

**Back-End Frameworks**
- PHP, NodeJS, MongoDB, MySQL, SQL, Java, Python, C