

## EDUCATION

### Master of Science in Geography

Expected Graduation in Spring 2020

#### Texas State University • San Marcos, TX

- **Thesis** - Estimating Gross Domestic Product with Satellite Imagery
- Automated the process of downloading Landsat imagery, creating cloud-free composites, and extracting developed area using Kuberntes, Python, and GDAL.

### Bachelor of Science in Geographic Information Science

Aug 2018

#### Texas State University • San Marcos, TX

- Minor in Computer Science

## EXPERIENCE

### Graduate Assistant

Aug 2018 - Present

#### Texas State University • San Marcos, TX

- Developed software to enable large-scale web scraping research

#### Labs Taught

- GEO2426 - Fundamentals of GIS (24 Seats)
- GEO4393C - Geoprogramming (10 Seats)

### Image Analyst Intern

May 2017 - May 2018

#### NASA Johnson Space Center • Houston, TX

- Refactored ISS Imagery Inspection Software
- Developed software for next-generation Orion Spacecraft

### Platform Software Developer

Nov 2014 - Aug 2015

#### swipejobs, Inc. • Austin, TX

- Led team of remote developers spanning multiple locations worldwide
- Moved entire backend architecture to AWS cloud
- Rearchitected and developed backend software stack

### Android Application Developer

July 2013 - Nov 2014

#### Chaotic Moon Studios • Austin, TX

- Worked alongside team of designers and developers to develop applications according to clients' specifications
- Worked with labs department to create custom prototypes for clients

## PROJECTS

### FXNOW Android Application

- Worked in a team of two developers to build a video on demand application for FX Networks from scratch in 3 months
- Integrated TV provider authentication and video advertisement systems
- 1,000,000+ Downloads

### Dell Mobile Workspace

- Transformed local file manager into multi-cloud service syncing file manager
- Implemented single sign on authentication

**AWARDS**

- Graduate Student Merit Fellowship
- Dean's List 6 semesters

**SKILLS**

- Very experienced with Python, Java, and Android Development
- Experience in ArcMap, ArcGIS Pro, QGIS, and ERDAS Imagine
- Familiar with PostgreSQL/PostGIS, MySQL, MongoDB, and Redis
- Experienced with Git and Github

**VOLUNTEERING   H.E.A.T. Texas State Chapter**

- Working with City of San Marcos Solid Waste and Recycling Department to educate citizens about recycling and composting
- Monthly cleaning of litter from the San Marcos river
- Elected secretary for 2017-2018 school year

**References available upon request**