

DANI DOLAN

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EDUCATION

Texas A&M University | Bachelor of Science in Geophysics and Seismology

Dec. 2019

- GPA: 3.3/4.0
- Sigma Gamma Epsilon Honors Society
- Dean's List, 3 semesters
- Programming Coursework: Signal Processing, Computer Concepts and Program, Topics in Applied Math

EXPERIENCE

Software Engineer - Intern

June 2020 - Present

TDS Telecommunications | Middleton, WI

- Updated map layers, content, and automated GIS data management tasks by developing Python scripts using API's
- Delivered department-wide emails with file attachments using an SMTP server running on an asynchronous task queue
- Increased productivity of 3 interns through training on current project best practices
- Collaborated with a cross-functional agile team of software engineers on the development, deployment, and troubleshooting applications
- Built a fully functional interactive dashboard from GIS map data using HTML, JavaScript, and Arcade
- Reduced project time by developing potential geospatial data solutions and applications for outside departments

Lead Research Coordinator: github.com/Dani-Dolan/SeismicProcessingWithPython

Aug. 2019 - Dec. 2019

Geology and Geophysics Department | College Station, TX

- Coordinated and managed a team of 6 peers ensuring all were trained in operating subsurface imaging equipment and capable of performing assigned duties
- Conducted meetings and interfaced directly with team members to review processing steps and chosen parameters via presentations and weekly status reports
- Developed graphs, graphics, and charts of geophysical data for field reports using both Python and MATLAB

Information Technology - Intern: github.com/Dani-Dolan/MATLABSeismic

Aug. 2017 - Dec. 2019

Geo-Watersheds Scientific | Fairbanks, AK

- Improved data quality on large data sets by filtering out noisy data using MATLAB
- Directed site evaluation, data collection, and hydrologic station set up to monitor a water supply system

SKILLS

- **Proficient:** SQL | Python | HTML/CSS | Java | Git | Windows | MATLAB | ArcGIS Pro | AGOL
- **Familiar:** C#/.NET | Linux | Oracle | CAD | Celery
- **Microsoft Office:** Word | PowerPoint | Excel | Outlook | Access

PROJECTS

Personal Website: dani-dolan.github.io

Real-Time Interactive 3-D Graphics Website: constellation-creator.github.io

- Developed an interactive graphics website using CSS libraries to create real-time animations of crystal lattice structures
- Incorporated Tweakpane library for fine-tuning parameters and monitoring changes from user input
- Utilized: HTML/CSS, JavaScript, GIT, Tweakpane

Password Generator Based on Favorite Book

- Integrated a natural language processing library in Python to generate meaningful passwords based on a chosen text or book
- Utilized: Python, spaCy

Interactive Java Card Game: github.com/Dani-Dolan/HalloweenCardGame

- Incorporated ArrayList for organizing and manipulating cards
- Implemented event handling, list manipulation, and inheritance
- Utilized: Java, Search and Sort Algorithms, card game mechanics

Sorting Visualizer - In Progress

- Designing an interactive website that visualizes the Merge Sort algorithm