Matthew E. Prinz | matt.prinz@gmail.com | 512-412-5494 | linkedin.com/in/matthewprinz

EDUCATION

Bachelor of Science, Electrical and Computer Engineering　　　　　　　　　　**May 2021**
The University of Texas at Austin　　　　　　　　　　　　　　　　　　　　Overall GPA: 3.53/4.00

RELEVANT COURSEWORK

Operating Systems, Software Design & Implementation II, Algorithms, Concurrent and Distributed Systems, Computer Architecture, Data Science Lab, Data Science Principles, Real-Time Digital Signal Processing Lab,

EXPERIENCE

Software Engineering Co-op, L3Harris Technologies

Sensor Software Team　　　　　　　　　　　　　　　　　　　　　　　　　1/20-6/20
- Implemented key feature of dwelling by enabling users to prioritize certain scans over others, with four different priority modes
- Designed and improved the flow of calibration data through the system by removing multithreaded access with no loss in performance
- Developed error response when given a scan command with an invalid configuration as well as blocked use of the test signal generator under certain scan configurations

CICS (Common Intelligence Collection Systems) Group　　　　　　　　　　　6/20-8/20
- Finished implementing messaging service by doubling the amount of information available to the user

Project Leader, Rig Automation Performance Improvement in Drilling (RAPID)　　1/19-5/19
- Identified ten phases in drilling process which could potentially save up to $6 million for Oxy
- Contributed to a paper that was presented at the SPE-IADC Drilling Conference 2020

Data Analysis Intern, RAPID

Clustering of Time Series Data　　　　　　　　　　　　　　　　　　　　10/18-11/18
- Plotted DTW path between time, bit depth, differential pressure, bit torque, and bit RPM with focus on the minimum for use in unsupervised learning
- Found minimum distance using FastDTW, pandas, and NumPy to determine time series similarity for use in clustering

Analysis of UCS Data　　　　　　　　　　　　　　　　　　　　　　　　12/18-1/19
- Built random forest classifier using NumPy, pandas, and scikit-learn to predict drilling efficiency as measured by UCS – closely related to MSE

CLEARANCES

Secret, COMSEC　　　　　　　　　　　　　　　　　　　　　　　　　　　June 2020-2025

PROJECTS

Instagram Scraper, Personal Project　　　　　　　　　　　　　　　　　　7/20-Present
- Downloaded thousands of posts and stories of users for use in image recognition and classification using Requests and the Python standard library

Multi-Threaded Chat Room, Software Design and Implementation II　　　　　　8/19
- Built from scratch chatroom using JavaFX, Sockets, multithreading, and observer design pattern

SKILLS

Proficient: Python, Java　**Familiar**: C/C++, ARM Assembly, MATLAB, Bash, Git, LabVIEW, Agile Development

ACTIVITIES

Eagle Scout: Organized book drive which generated 500 books for Overton Elementary