

# JOSHUA SCHERTZ

*Techie, visionary, optimist.*

San Antonio, TX

[joshschertz.com](http://joshschertz.com)

[github.com/camisatx](https://github.com/camisatx)

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## SKILLS

**Languages:** Python (Adv), JavaScript (Int), C++ (Beg)

**Data:** SQL, Postgres, Docker, Machine Learning

**Tech:** Linux, Git, Vim, GCP, AWS, Kubernetes

**Design:** React, Flask, HTML, CSS, Sass, CAD

## TECHNICAL PROJECTS

**grokSpace** (Python, JS, HTML, CSS, Postgres, Docker, Kubernetes, GCP)

[grokSpace.io](http://grokSpace.io)

- Designed and built full stack for storing, analyzing, and visualizing terabytes of scientific space data
- Dockerized Flask app linked to GCP CloudSQL and load balanced via Traefik node

**The Vibe** (React, Python, Postgres, Docker, JSX)

[thevibe.city](http://thevibe.city)

- Yelp of conversations within a PWA (React & Flask API) as part of 12 startups in 12 months

**The Contact Guru** (Python, jQuery, HTML, Sass, SQLite3, Docker)

[thecontact.guru](http://thecontact.guru)

- Designed and built smart and secure contact manager as part of 12 startups in 12 months

**Clinical Unit Mapper** (Python, jQuery, HTML, CSS, SQLite3, Docker)

[ClinicalUnitMapping.com](http://ClinicalUnitMapping.com)

- Designed and built web app based scientific tool for standardizing clinical trial units

**pySecMaster** (Python, Docker – AGPLv3 Securities Master)

[github.com/camisatx/pySecMaster](https://github.com/camisatx/pySecMaster)

- Built containerized data framework for storing interrelated finance data for over 20,000 public firms
- Developed code to handle stock/option prices, corporate actions, economic events, and financials
- Efficiently utilized PostgreSQL to store +100GB of relational data on remote servers

**Sayv Bot** (Python – Event driven trading system using neural net)

- Co-built trading system that used automated strategies to directly trade stocks and options with broker
- Implemented a strategy that used a Multi-layer Perceptron model to predict multi-day stock volatility

**System Administration**

- Built physical systems: storage servers, multi-GPU systems (gaming, mining), HPC clusters (eBay parts)
- Maintain RAID arrays, multi-OS file sharing, network configuration (WiFi, LAN), and system backups

## EXPERIENCE

**Cofounder and CEO** – grokSpace – Denver, CO (remote)

May 2018 – Present

- Holding company building space data analytics system, and a Space Resources news platform
- Collaborate with planetary scientists to develop rigorous approaches for automated scientific analysis

**Journalist** – The Space Resource – Denver, CO (remote)

Dec 2018 – Present

- Write weekly science and engineering articles related to the Moon, Mars, asteroids, and cis-lunar space

**Technical Consultant** – San Antonio, TX

Jan 2017 – Present

- Helping dozens of individuals and small business solve technical issues

**Cofounder and Programmer** – Sayv LLC – San Antonio, TX

July 2015 – Dec 2016

- Cofounded an algorithmic trading firm that generated a weekly return of 0.5% within the options market
- Managed all legal, record keeping, accounting and tax activities of the 4 person company

**Associate Corporate Economics Analyst** – Valero Energy – San Antonio, TX

June 2013 – July 2015

- Processed and automated product forecasts and planned volume runs to derive company gross margin

## EDUCATION

Colorado School of Mines

MS Space Resources (Remote Program) – Cumulative GPA: 4.0

Expected Graduation in 2020

The University of Texas at San Antonio

BBA Finance; BBA Accounting

Class of 2014

Graduated with Business Honors, Cum Laude – Cumulative GPA: 3.56