

JOSHUA SCHERTZ

Techie, visionary, optimist.

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Texas

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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

The Vibe (React, Python, Postgres, Docker, Mapbox) TheVibe.city

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

CubeSat Maker (React, Python, Postgres, Docker)

- Tailored guide and best practices for building and operating CubeSats
- Completely custom site using hooks, Navi, Material-UI

grokSpace (Python, JS, HTML, CSS, Postgres, Docker, Kubernetes, GCP) 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 Contact Guru (Python, jQuery, HTML, Sass, Sqlite3, Docker) 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

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

pySecMaster (Python, Docker – AGPLv3 Securities Master) 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

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

EXPERIENCE

Technical Consultant – TX

Jan 2017 – Present

- Prototype and develop custom web applications (React, Flask, Docker), from idea to deployment
- Projects: finance, clinical, astronomical, aerospace, mapping

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 – TheSpaceResource.com – Denver, CO (remote)

Dec 2018 – Present

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

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