JOSHUA SCHERTZ
Techie, visionary, optimist.

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SKILLS

Programming: Python (Adv), JS (Beg), C++ (Beg)   **Tech:** Linux, Git, Vim, GCP, AWS, Kubernetes
Data: SQL, Postgres, Docker, Machine Learning   **Design:** HTML, CSS, Flask, Fusion 360

TECHNICAL PROJECTS

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, CSS, 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
- Efficiently utilized PostgreSQL to store +100GB of relational data on remote servers

Eye Of Ra (Python, HTML, CSS, JS, Docker)
- US Federal political analysis website built in Flask using Docker containerization

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 which provided consistent 0.5% weekly return over 6 months (Jun '16 – Nov '16)

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 CTO – Denver, CO (remote)   May 2018 – Present
- Building full stack for space data analytics firm using Python (Flask), Postgres, GCP (GKE, CloudSQL)
- Collaborate with planetary scientists to develop rigorous approaches for automated scientific analysis

Freelance Programmer and Tech 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
- Co-built the trading system, along with the open sourced database system that feed it (pySecMaster)
- 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)   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