CALEB PITTS

Software Engineer | Data Analyst | Crypto Researcher

caleb.pitts@me.com
linkedin.com/in/calebpitts
(916) 834-1314

SKILLS

Programming | Python | C++ | JavaScript

Analytics | SQL | Excel | Jupyter | Scikit-learn | Tableau | Pandas | NumPy

Web | REST API | JSON/XML | HTML/CSS

PROJECTS

Trading Arbitrage Bot

- A Python bot that searches for arbitrage trading opportunities on cryptocurrency exchanges, and made trades with an average profit of **0.03%**
- Scanned **223** crypto pairs approximately every **0.7** seconds by minimizing the number of calls made to the exchange's API

Crypto On-Chain Analytics App

- Displays protocol, chain, and crypto level data along with sentiment data on crypto topics
- Reveals long-term vs. short-term BTC holder sentiment

Content Creator | Studio 73

- Wrote newsletters and made instructional videos to connect crypto newcomers to the space
- Conducted DeFi research to identify the best yield strategies

EDUCATION

University of California, Irvine
Bachelor of Science in Data Science
Minor in Computer Science
Sep 2016 - Jun 2020

EXPERIENCE

Western Digital

Software Verification Engineer | Milpitas, CA
Jul 2020 - Present

- Designed and developed software tests for non-volatile memory express (NVMe) enterprise drives associated with projects worth **$300M+**
- Led the analysis of consumer latency tests by defining key metrics with engineering teams and increasing the number of metrics tracked by **320%**
- Enhanced data collection of testing results via Python scripting, leading to the identification of "walking-wounded" issues among **~30%** of tests
- Deployed test suites across CentOS Linux Virtual Machines (VMs) to eliminate manual testing and reduce total validation time by over **50%**
- Automated weekly metrics reports by scraping data off Linux VMs and interacting with out internal API, saving dozens of manual hours per week

Pacific Life

Data Analyst | Newport Beach, CA
Jun 2019 - Jun 2020

- Forecasted customer service daily call volumes by training a machine learning (SARIMA) model that predicts within **9%** of actual call volumes; the model helped management optimize staffing on low call volume days by as much as **25%**
- Extracted **3.5M+** insurance contract processing interactions to define employee benchmarks for work queues, resulting in an identified opportunity to save the company **14%** of work hours within operations
- Enhanced performance evaluation of **100+** employees by tailoring employee-specific metrics and rankings on an interactive dashboard

Working Memory and Plasticity Laboratory

Undergraduate Researcher | Irvine, CA
Sep 2017 - Jun 2020

- Identified factors that accelerate working memory performance by creating a logistic regression model that predicts top and bottom performers with **86%** testing accuracy
- Presented to faculty using data from **726** subjects across **12** different studies

Institute for Genomics and Bioinformatics

Undergraduate Researcher | Irvine, CA
Sep 2017 - Mar 2019

- Developed data collection infrastructure by extracting over **140k** data files from a protein data repository by formatting API responses so that it is compatible with graduate research programs