

Cody Troyer

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PROFESSIONAL EXPERIENCE

EMERSON AUTOMATED SOLUTIONS | ROUND ROCK, TX

JULY 2019 - PRESENT

Senior Software Engineer

- Contributes to developing new features for DeltaV products (Process History View, Alarms, etc) using VS2022 C++/C#
- Resolves bugs on previous and upcoming releases in a companywide effort to keep technical debt low
- Assists field engineers on the site with debugging and resolving customer issues as they arise
- Create unit, integration, and end to end tests to ensure the application meets design specifications and intended behavior
- Design thorough test harnesses and employ test automation to catch bugs before customers encounter them
- Provide feedback with risk based analysis on peers' design and code through reviews as a member of the security team

VOLATILITY BOX | AUSTIN, TX

NOVEMBER 2018 - PRESENT

Consultant (tosindicators.com; volatilitybox.com; orbsetups.com)

- Technical co-founder of a fin-tech startup, whose primary goal is to leverage technology to allow everyday traders to make exceptional returns.
- Utilizing machine learning to analyze millions of data points to discover trends and patterns and create better models
- Created several multithreaded scripts in Python to parse, manipulate, and analyze big data from a stream daily
- Studied several million data points of minute price action candles to find recurring and predictable volatility patterns in stocks and futures, leading to the co-creation of the Volatility Box trading strategy
- Built an interface for the TD Ameritrade API to translate our volatility models into an automated trading bot
- Maintain 20+ Oracle Cloud Servers and continued upgrades to preserve scalability and efficiency
- Designed (frontend and backend) a robust set of trading features for active day traders using Javascript and PHP:
 - Dashboard: generate volatility ranges, making the tool platform agnostic
 - Live Scanner: provide real-time alerts to day traders with high probability trade setups
 - Indicator Generator: user can generate Volatility Box indicator files, on scale
 - Backtester: runs the strategy on over 20 years of minute data in just seconds
 - Charts: user can see 20 years of candle data for over 12k symbols and see their strategies forming in real time
 - Telegram Alerts: allowing a user to intelligently manage his or her portfolio of stocks

GLOBAL EAGLE ENTERTAINMENT | LAKE FOREST, CA

OCTOBER 2014 - FEBRUARY 2019

Software Engineer

- Performed new development as well as upkeep on game titles using C++ using Visual Studio
- Contributed to maintenance on Global Eagle's personal studio and 3rd party frameworks
- Used Svn and Git to version game source code
- Created game packages that are compliant with Panasonic's platforms using Ubuntu and Virtualbox
- Logged tasks, hours, bugs, and How-To's with Atlassian Suite (Jira, Confluence, etc)
- Designed and updated existing bash and perl scripts that assist in generating game loadables for Panasonic
- Created new scripts to improve work efficiency by automating daily tasks for QA and Dev teams

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

AUGUST 2014

B.S. Computer Science

SKILLS AND INTERESTS

- **Languages:** Python, C++, C, C#, Javascript, Bash, AutoIT, HTML, CSS, MySQL, PHP, NodeJS
- **Technology:** Visual Studio, Docker, Git, Linux, Agile
- **Interests:** Automation, Gaming, Security, and FinTech