Cody Troyer

codyatroyer@gmail.com | (737) 216-3036 | Austin, TX | www.codyatroyer.com

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 VS2019 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 arose
- 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

TOS INDICATORS | AUSTIN, TX   NOVEMBER 2018 - PRESENT

Consultant (tosindicators.com; volatilitybox.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 30+ 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
    - Triggers: provide real-time alerts to day traders with high probability volatility trade setups
    - Indicator Generator: user can generate Volatility Box indicator files, on scale
    - SMS 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 updates 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

PROJECTS

- **Fantasy Line-Up:** [Python] Automated the daily lineup setting process for any ESPN Fantasy Basketball team
- **GE Fitbit Site:** [Python/JS/PHP] Designed front/backend of a website for my company to encourage worksite wellness
- All projects can be found at www.codyatroyer.com

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE   AUGUST 2014

B.S. Computer Science

SKILLS AND INTERESTS

- **Languages:** Python, C++, C, C#, Bash, AutoIT, HTML, JS, CSS, MySQL, PHP
- **Technology:** Linux, OSX, Windows, Visual Studio, Git/SVN, Agile
- **Interests:** Automation, Artificial Intelligence, Embedded Systems, Financial Technology