

**Tony Hwang**  
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## Summary

Seasoned Quality Assurance Engineer with 15+ years of experience in software testing, automation, and software development, seeking a role as a Machine Learning Engineer / Data Scientist. Skilled in creating and managing automation systems, finding bugs, and working with teams to solve challenging issues. Python expert and familiar with common machine learning techniques such as linear regression, neural networks, supervised and unsupervised learning, reinforcement learning, etc.

## Work Experience

### Collective2 Consulting, Quantitative Analyst, Irvine, CA, 1/2020 to present

- Modeled stock market behavior by using machine learning to predict market movements profitably.
- Created systems based on these strategies by repeated and constant testing, that allowed customers to achieve 50% a year returns over the last 4 years.
- Kept system up to date by constantly tuning and updating system as market conditions changed, keeping system performance high.

### Bitcentral, Newport Beach, CA, Senior QA Engineer, 8/2019 to 5/2022

- Improved existing automated testcases by writing new automated test cases, and updating existing test cases. This improved repeatable testing and confidence in product.
- Improved skillset of team by training junior team members in software development concepts, which allowed more people to contribute to the automation system and testing tools.
- Created new automation to tackle something that was not automatable previously (Windows program that did not use standard controls).

### Pacific Life, Newport Beach, CA, QA Analyst, 6/2017 to 8/2019

- Conduct tests of various business software through utilization of functional testing.
- Chart the writing and development of new and the maintenance of existing automation for business software using HP UFT/QTP.
- Direct the creation and maintenance of new and existing tools that automate specific tests.
- Orchestrate the creation and development of a new automation framework on Jenkins to administer multi-day tests that previously was done manually.

### Numecent, Irvine, CA, Software Test Engineer, 10/2013 to 4/2017

- Oversaw all automation operations for the company during my time in the role.
- Oversaw the maintenance, creation, and execution of automation to test client, server, and creation components of a cloud-based application delivery software.
- Handled the writing of tools to automated VMWare testing.

### Amazon, Irvine, CA, Contract Software Engineer, 10/2012 to 10/2013

- Played a key role in contributing to a framework for automated testing of the Amazon App store on Kindle devices and other Android devices.
- Addressed and solved several difficult testing issues that came up over time, such as logging, timeouts, etc.
- Utilized instrumentation to automate GUI based tests and component integration tests.

## Additional Experience

- Started a business building and selling custom lightweight lithium batteries for professional racing teams and sports cars. Gained self-taught knowledge of basic analogue electronics, wire harnessing, schematic design, and PCB layout.
- Created shareware that was the first successful software to help online poker players. Designed and developed software named PokerStat in 2001. This was the first successful program to parse customer log files, create a database, and generate statistics from customer's data.

## **Skills**

Machine Learning, Data Science, Artificial Intelligence, Python, Neural Networks, Pytorch, Spark, Hadoop, sci-kit learn, QA Test Automation, Java, VBScript, C++, .NET, Selenium, HTML, Auto-it, Appian, Unix, Visual Studio, CISSP certified, Algorithms and data structures, White box / black box testing, Git, Object oriented design

## **Education**

Masters of Information and Data Science, UC Berkeley, 2022

Bachelor of Science in Electrical Engineering & Computer Science, UC Berkeley