

Brian A. Yapple

Experienced Automation, DevOps, and Cybersecurity Engineering with Python Programming Background

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PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPMENT LEAD

UST Global - Hillsboro, OR January 2019 to Present

- Act as program lead for multiple automation development teams around the world.
- Start a new python development and QA team from the ground up during the pandemic in Bangalore, India.
- Oversee client and high-end desktop chipset validation automation development.
- Assist with debug and production execution of automated test execution.
- Act as liaison between the client and Independent Software Vendor (UST).
- Architect low- to high-scale solutions with junior- to- senior-level members of both organizations.
- Deliver reports and inferences on cost-cutting, risk mitigation, and failure investigation techniques and results.
- Ruby-on-Rails internal Web App (BolderDash).
 - Unit testing in rspec.
 - Utilized Dashing and other community gems for modern look and feel.
 - Utilized coffeescript, and haml for clean, easily managable code.
- Python Projects (with an emphasis on interoperability between versions 2 and 3):
 - RESTful API testing and development using urllib3 and requests.
 - PyTest, nose, and unittest-based BDD design approaches.
 - Selenium control of Windows Apps, Chromium-Edge browser.
 - git-log risk measurement 'heat' maps, tag clouds, plotly, graphviz - data visualization.
 - Several suites of proprietary test cases for Windows automation, Windows Linux Subsystem integration.
 - USB automation test suite for USB-2, USB-3, and USB-C based on the Windows System Assessment Tool.
 - Pandas, numpy integration for data manipulation before Spreadsheet analysis.
 - Integration/connector code for SQL Server, Sharepoint, SQLite, MySQL, and other organizational assets.
 - Virtual Machine management scripts - replication, duplication, and management.
 - Data management tools for XML, CSV, and JSON parsing and Splunk integration.
- Presented Python-based Automated Platform Firmware Update Solution at the 2019 Intel Software Professionals Conference (SWPC).
- Quarterly Recognition Awards

SOFTWARE DEVELOPER

PROCEDUREWORKS, INC - Palm Desert, CA September 2014 to December 2018

- Failure Analysis, Product design / redesign.
- Reverse-engineering, Security testing, threat analysis, and penetration testing on client software and hardware devices.
- Identify required lab resources and purchasing.
- Composite and comprehensive risk management.
- User-level, device-level, and kernel-level software development
- Develop, test, maintain, and release Windows, Linux, and macOS PCI Express Drivers for High-Speed DMA IP Core.
- Perform failure analysis and product redesign on embedded devices, client platforms, and HPCs.
- Maintain internal source repositories and bug tracker.
- Python Specific-Projects:
 - Industrial Controller JSON-RPC Polling Utility using Requests, JSON libs.
 - Automated test suite for Atmega-based Embedded Controller.
- Additional Technologies
 - macOS, Windows, Linux (Debian, CentOS)
 - ARM64, x86 and amd64, PowerPC
 - Cross-platform C using conditional compiles.
 - C# and .NET & dotnetcore.
- Worked with clients around the world (Germany, China, India, etc.) on several different highly-technical projects, including:
 - A PCI-Express DNA Sequencing Card
 - Thermal imaging solutions
 - 4K Thunderbolt Camera
- Presented at the Pacific Northwest National Labs (PNNL), to the staff of the Operational Security Directorate.
- Co-developed an Industrial IoT Controller / Power Management device & wrote interrogation utility/polling service in C. The project was acquired by Panasonic in 2019.
- Performed Product Validation on enterprise-grade, wireless-charging tablets with Taiwan-based vendor, and third-party developers for education and tribal gaming markets.

JUNIOR POST-SILICON VALIDATION ENGINEER

MATHSTAR, INC - Hillsboro, OR February 2005 to October 2008

- Performed various lab tests on technical platforms, initially for SW QA.
- Work with peers, subordinates, and seniors on first-of-its-kind technology during first-silicon, and power-on.
- Co-Developed a venturi-tunnel solution to cool the preproduction silicon on reference platforms.
- Evaluated schematics and performed routine board rework.

- Wrote series of XRAM stress test that identified critical component issues during the development phases – reducing financial impact.
- Python-Specific Projects
 - Co-Developed shmoo testing automation framework in Python2.
 - Python integration with Excel, system calls, serial port programmers, and legacy interfaces.
- Provided development and test training courses to other organization members.
- Recognized for outstanding contributions as the youngest member of the company.

EDUCATION

MS – IT PROJECT MANAGEMENT

American Public University

2018 to Present

- GoldenKey ThoughtLeader
- Dean's List

BS – CYBERSECURITY

American Public University

2017 to 2019

- Concentration in Mobile, Wireless Devices
- Graduated Cum Laude
- IEEE Club President

CERTIFICATE - CYBER FORENSICS

American Military University

2017 to 2018

AA – OREGON TRANSFER PROGRAM

Clatsop Community College - Astoria, OR

2004 to 2006

- Student Body President
- Phi Theta Kappa
- Awarded President's Cup

SKILLS

- Risk analysis and management
- Training and coaching
- Technical and narrative documentation
- Public outreach
- Microsoft Office
- Interpersonal communication
- Goal-setting, professional, and leadership development.

OPEN-SOURCE PROJECTS

- Raspberry Pi 4 Kubernetes Cluster
- DogeCoin Analyzer w/ AlphaVantage API
- Python3D Library Demonstration w/ Mathematic Functions
- Blender API-Based PyTest suite

MILITARY SERVICE

BRANCH: ARMY

RANK: SERGEANT

2010 TO 2014

COMMENDATIONS:

- Army Commendation Medal with two Oak Leaf Clusters.
- Army Achievement Medal.
- Overseas Service Ribbon.
- Afghanistan Campaign Medal.
- Global War on Terror Expeditionary Medal.
- Master Driver, Expert Marksman Badges.
- Modern Army Combatives Instructor.
- Distinguished Honor Graduate.

AFFILIATIONS AND ASSOCIATIONS

- Alumni, People-to-People Student Ambassador Program
- Member, Omicron Sigma Sigma (Order of the Sword and the Shield)
- Member, Students for the Exploration and Development of Space (SEDS)
- Member, Society for Defense and Strategic Studies (SDSS)
- Member, Society for Collegiate Leadership and Achievement (SCLA)
- Thought Leader, GoldenKey International Honor Society
- Student Associate Member, IEEE
- 2019 PDX Marathon, 2013 Army 10 miler, 2014 Air Force Marathon
- Contributor, Shutterstock Content

LINKS

<http://github.com/briunstoppable>

<http://www.brianyaple.com>

<http://www.linkedin.com/in/3214n>