

Brian A. Yapple

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Experienced, creative problem-solver. Inquisitive, unorthodox automation, and information security advocate. Passionate about working with creative and diverse professional teams to meet the technical challenges of tomorrow. Army Veteran. GoldenKey Thought Leader.

PROFESSIONAL EXPERIENCE

AUTOMATION ENGINEER CONSULTANT @ Jobot in Carlsbad, CA FROM 06/2021 TO CURRENT

- Under contract with TrackVia to 'automate everything'.
- Embrace and deploy several Low-Code, No-Code tools (Workato, TrackVia, etc.) to automate compliance programs (SOC II, HIPAA, FEDRAMP) by connecting to various security REST and SOAP API endpoints for a variety of security services, including:
 - SumoLogic, Datadog, TrendMicro CloudOne, CoalFire, and more.
- Utilize Ruby and Javascript scripts to augment low-code/no-code solutions.
- Cybersecurity policy and document review.
- SAST and DAST implementation with GitLab.

SENIOR SECURITY ENGINEER CONSULTANT @ Apex Systems in Carlsbad, CA FROM 02/2021 TO 06/2021

- High-Impact, Short-Term Contract with FreddieMac.
- Leverage advanced Python and PowerShell design patterns to facilitate security automation between various organizational resources. (SSO, LDAP, CyberArk, etc.)
- Incorporate Microsoft SharePoint, Power Apps, Azure, and the Power Platform and the ever-growing Office365 ecosystem into low-code/no-code end-user solutions for the client.
- Deploy solutions as AWS lambdas to decentralize execution of legacy and new solutions.
- Assist management teams with requirements gathering mechanisms to drive better delivery timelines and development standards.
- Provide weekly video training sessions on python design patterns.
- Make heavy use of Confluence, JIRA, and GIT to share information, facilitate discussion and collaboration.
- Develop and translate REST APIs using PowerShell, Python, and Postman to act as connectors between technologies.

SOFTWARE DEVELOPMENT LEAD @ UST Global in Hillsboro, OR
FROM January 2019 TO February 2021

- Served as Program Lead for multiple, coordinated automation development teams around the world.
- Started a new 6-member development and QA team from the ground up during the pandemic in Bangalore, India.
- Oversaw client and high-end desktop chipset validation automation development.
- Designed low- to high-scale solutions with junior- to senior-level members of both organizations.
- Delivered reports and inferences on cost-cutting, risk mitigation, and failure investigation techniques and results.
- Developed Ruby-on-Rails internal Web App.
- Performed Kernel, driver, system, and network advanced debugging.
- Contributed and helmed several Python Projects (with an emphasis on interoperability between versions 2 and 3)
- Utilized Pester, rspec, PyTest, nose, and unittest-based BDD design approaches.
- Relied on Selenium for interactive, automated control of Windows Apps, Chromium-Edge browser.
- Adapted git-log for risk measurement 'heat' maps, tag clouds, plotly, graphviz - data visualization.
- Developed several suites of proprietary test cases for Windows automation, Windows Linux Subsystem integration.
- Created a USB automation test suite for USB-2, USB-3, and USB-C based on the Windows System Assessment Tool.
- 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, including pandas, numpy, scipy.
- Presented Python-based Automated Platform Firmware Update Solution at the 2019 Intel Software Professionals Conference (SWPC).
- Quarterly Recognition Awards

SOFTWARE DEVELOPER @ PROCODEWORKS, INC IN Palm Desert, CA
FROM September 2014 TO December 2018

- Performed failure analysis on embedded systems and industrial controllers, including reverse-engineering, security testing, threat analysis, and penetration testing on client units.
- Built and maintained software and hardware test lab.
- Developed Windows, Linux, and macOS software, drivers, and kernel objects at the user and kernel level.
- Developed, tested, maintained, and customized Windows, Linux, and macOS PCI Express Drivers for High-Speed DMA IP Core for various platforms, including x86, x64, and AMD64.

- Maintain internal git repositories and bug tracker MantisBT.
- Wrote a utility to poll an Industrial Controller JSON-RPC Polling Utility using Requests, JSON libs.
- Authored an automated test suite for an Atmega-based Embedded Controller.
- Worked with clients around the world (Germany, China, India, etc.).
- Presented a steganography lecture 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.

JR POST-SILICON VALIDATION ENGINEER @ MATHSTAR, INC IN Hillsboro, OR
FROM February 2005 TO October 2008

- Performed various lab tests on technical platforms, initially for SW QA.
- Worked with peers 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.
- Co-Developed shmoo testing automation framework in Python2, with Excel integration, 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

2019 to Present

- GoldenKey ThoughtLeader
- Dean's List

CERTIFICATE - CYBER FORENSICS

American Military University

2017 to 2018

BS – CYBERSECURITY

American Public University

2017 to 2019

- Concentration in Mobile, Wireless Devices
- Graduated Cum Laude
- IEEE Club President
- President's and Dean's List

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, Servant leadership, mentorship.
- Technical and narrative documentation
- Public outreach and public speaking
- Interpersonal communication
- Goal-setting, professional, and leadership development

OPEN-SOURCE PROJECTS

- 24-Core ARM k3s Cluster for Protein Folding using Rosetta@Home
- DogeCoin Analyzer w/ AlphaVantage API
- Python3D Library Demonstration w/ Mathematic Functions
- Blender API-Based PyTest benchmark suite

MILITARY SERVICE

BRANCH: ARMY RANK: SERGEANT 2010 TO 2014

COMMENDATIONS

- Army Commendation Medal with two Oak Leaf Clusters.
- Army Achievement Medal with two Oak Leaf Clusters.
- 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://www.linkedin.com/in/3214n>
- <http://github.com/briunstoppable>
- <http://www.brianyaple.com>
- <http://www.shutterstock.com/g/Yaple?rid=290115459>