

Brian A. Yapple

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*Experienced, creative problem-solver. Inquisitive, unorthodox automation, and security advocate.
Passionate about working with creative professionals and diverse teams to meet the technical challenges of tomorrow.*

PROFESSIONAL EXPERIENCE

SENIOR SECURITY ENGINEER @ APEX SYSTEMS in Carlsbad, CA FROM 02/2021 TO CURRENT

- 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 part 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

Honor societies and associations

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 developmen

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.
- 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>
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