MIKE APPLEBY

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EDUCATION

Bachelor of Science in Computer Science
University of Florida, Gainesville, FL
GPA: 3.9/4.0

SKILLS

Languages	C/C++, Python
Skills	Backend & systems software generalist, good at fixing bugs
Platforms	Linux, FreeBSD

EXPERIENCE

Rigetti Quantum Computing July 2019 - April 2020
Software Engineer (remote from Mexico) *Berkeley, CA*

· Worked primarily on Rigetti's open-source developer tools, including a compiler and simulator for Rigetti's quantum programming language Quil, as well as the pyQuil Python API.

`https://github.com/rigetti/quilc`
`https://github.com/rigetti/qvm`
`https://github.com/rigetti/pyquil`

On hiatus December 2013 - July 2019

· Traveling, painting, playing with dog & son. Contributing to open source projects, for fame and glory.

nCircle, Inc. (acquired) / Tripwire, Inc. December 2009 - December 2013
Software Engineer *San Francisco, CA*

· Worked on an asynchronous network scanner in C/C++ which did host, port, application, and OS detection and vulnerability scanning.
· Helped secure $250k support contract by flying onsite to root cause and fix scan failures caused by a host with a misbehaving TCP stack on the customer's network.
· Implemented ICMPv6 ping scan and other changes for IPv6 support.
· Ported parts of the application from C to C++.
· Ported parts of the application from FreeBSD to CentOS.
· Spearheaded unit testing effort, writing hundreds of tests, which found many bugs and contributed to the success of the C++ port.
· Worked remotely from Mexico starting in January 2012.

nCircle, Inc. July 2009 - December 2009
QA Engineer *San Francisco, CA*

· Wrote test automation in Python.
· Wrote automated PXE installer to re-image and configure the product over the network. Prior to this, re-imaging an appliance was a time-consuming, manual process that required engineers to be physically present in the test lab to respond to prompts during the install and to manually configure networking on the host after installation. During release testing, QA engineers might spend an hour or more every day installing new versions for testing. In contrast, the installer I wrote allowed engineers to run a command from their terminal to kick off a fully automated install, after which the test machines would come up on the network, ready for testing.

References available on request.