

SOFTWARE ENGINEER

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Experience _

Intel - IT / Engineering Computing / Design Hosting

Hillsboro, Oregon

SENIOR SOFTWARE ENGINEER

2017 - Present

- Leading an effort to improve resiliancy in the design environment
- Improving the CI/CD solution for front-end design at Intel

Intel - Data Center Group / Solutions Group / Software Defined Infrastructure

Hillsboro, Oregon

SENIOR SOFTWARE ENGINEER

2015 - 2017

- Technical lead on the open source Snap telemetry framework
- $\bullet \ \ \text{Customer facing solutions engineer with expertise in software automation, delivery and devops}$

Intel - IT / Engineering / Automation Solutions Engineering

Chandler, Arizona

SENIOR SOFTWARE ENGINEER

2012 - 2015

- Delivered IT's first OpenStack based private cloud
- Technical lead for the automation team

Intel - IT / Engineering / Data Center Engineering

Chandler, Arizona

SOFTWARE ENGINEER

2007 - 2012

- · Application hosting subject matter expert and technical lead
- Designed, developed and supported solutions for the IT hosting portfolio including IT's first self-service private cloud backed into VMWare
- Awarded IAA (Intel Achievement Award) for delivering industry leading private cloud

Intel - IT / Engineering Computing / Applications

Chandler, Arizona

SYSTEMS ENGINEER

2005 - 2006

- Designed and supported in-house tools and solutions that enabled the design environment
- Designed, developed and supported IEM (Identity Entitlement Management) to manage UNIX user identities and groups globally through the corporate AD infrastructure

Intel - IT / Engineering Computing / Linux Platform

Chandler, Arizona

Systems Engineer

2003 - 2005

- Supported a local 2600 node Linux cluster.
- Managed general compute infrastructure including DNS, DHCP, NIS, local switches, remote console servers, build servers and several core infrastructure applications
- · Developed and supported NEBulous (later became Intel Platform Provisioning Solution) a PXE based server provisioning framework

Intel - IT / Engineering Computing / Labs

Chandler, Arizona

2001 - 2003

SYSTEMS ENGINEER

• Provided EC support to all Chandler labs including the CH3 CV test floor

- Supported several custom builds and one-off solutions found only on the test floor or in labs
- Worked closely with vendors to support custom lab solutions and setups

Intel - IT / Engineering Computing / Help desk

Chandler, Arizona

Systems Engineer

2001 - 2003

- Resolved 1st and 2nd level support issues
- · Acquired technical breadth, understanding and appreciation for the the components that makes up the Intel design environment

SEPTEMBER 23, 2017 JOEL COOKLIN · RÉSUMÉ



Arizona State University

Phoenix, Arizona

B.S. COMPUTER ENGINEERING 2000

Projects

GateKeeper private source

CI/CD FOR FRONT-END DESIGN

Current

- · Used by most front-end design teams
- Consumes more than a third of all compute cycles
- Tightly integrated with complex tool flows and the massively distributed design grid

Snap Telemetry.io http://snap-telemetry.io

A MODERN OPEN SOURCE TELEMETRY FRAMEWORK

2015

- Plugin based framework written in Go
- Supports plugins written in Go,Python and C++
- Includes a large and growing plugin catalog

Private Cloud (Open Source Based)

INTEL IT'S OPENSTACK BASED PRIVATE CLOUD

2013

- Developed and supported integrations on top of OpenStack to support Intel's environment
 - Custom UI
 - Integration with corp identity management and entitlement processes
 - VM image and bootstrap automation
 - Control plane automation
- Intel@IT White Paper Accelerating Deployment of Cloud Services Using Open Source
- Intel@IT White Paper Developing a highly available hybrid cloud

Private Cloud private source

INTEL IT'S FIRST PRIVATE CLOUD 2011

- Developed an IaaS solution including a self service portal on top of VMware
 - Providing self service server provisioning at Intel for the first time
- Most services were .NET based
- $\bullet \quad \text{My contributions were recognized with an IAA (Intel Achievement Award), Intel's highest award}\\$

IEM private source

IDENTIY ENTITLEMENT MANAGEMENT

2008

IEM is a collection of tools used in the design environment which allow system administrators, domain administrators, and other UNIX users to manage user access to resources in a cross-platform environment.

- · Traditional service oriented architure
- C# was used for the backend and web UI
- Java was used for client side tools and CLIs

September 23, 2017 Joel Cooklin · Résumé

IPPF private source

INTEL PLATFORM PROVISIONING FRAMEWORK

2006

IPPF provides baremetal provisioning through a set of tools and services. It included automation to build and maintain a custom pre-boot OS that would communicate with IPPF getting build directives that enabled the bootstrapping of the targe build (Windows, Linux, even Solaris and HPUX in the early days).

- Originally developed in Java it was later ported to C#
- With the combination of the IPPF preboot-OS and the IPPF workflow engine users were able to create workflows to solve complex use cases
- It is still in use today