KIT PLUMMER

CLEARED TECHNOLOGY ARCHITECT
AND SOFTWARE ENGINEERING PRACTITIONER

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Profile

A technology architect and engineer focused on distributed computing, open source development, software delivery operations, and emergent innovation culture.

Skills

Problem Solver
Analyzing hard problems and providing quick and maintainable solutions that allow organizations to be ready for market opportunities.

Change Agent
In tune with start-up and enterprise practices, excelling at evolving engineering practices towards optimum delivery requirements.

Service
Communicating needs between customers, engineers and operators, helping both to focus on their respective tasks - effectively and efficiently.

Activities

The Codice Foundation, Founder and Board Member
Open Tucson, Founder
OVMTB High School Mountain Bike Team, Founder and Team Director
National Interscholastic Cycling Association, Level I Certified Coach

Experience

AirGap / RadiantBlue Technologies *Chief Engineer/Architect* **2012-Present**
Consulting organizations on the "modern software engineering" enterprise

- Communicating the need for enterprises to accommodate a flexible culture, to accommodate technology change, preventing debt and allowing for the right tool to be applied to the job at hand

- Analyzing existing processes and documenting infrastructure and automation opportunities

- Training on infrastructure-as-code tools (ie. Puppet, Salt) and cloud and container tools (Openstack and Docker)

- Design and architecture for 'cloud-based' applications, focusing on distribution and scalability

- Supporting continuous delivery and deployment pipelines, with a focus on supply chain management

Developing open source alternative solutions for defense and intelligence systems, to enable rapid and emergent innovation opportunities

- Utilizing public and private cloud technologies (e.g. Amazon Web Services(AWS): EC2, S3/Glacier, Route53, RDS, etc.; Heroku PaaS; OpenShift) as well as emerging technologies such as NoSQL, map-reduce, and dynamic software frameworks

- Consulting on continuous integration, continuous delivery and infrastucture-as-code practices

- Supporting open source operations, serving as a board member at The Codice Foundation

- Working with the Distributed Data Framework project, providing Puppet and AWS support to support dynamic provision and auto-configuration of large-scale deployments

Managing development and operation of a workflow automation engine for delivery of software components

- Architected and implemented private cloud infrastructure based on Openstack, Puppet and Docker, and augmented by AWS compute and storage resources

- Designed a workflow engine for distributed task operations using Mongo, Grails, PostgreSQL, and Activiti

- Developed Ruby microservices connecting external data sources (e.g. NIST vulnerability database, VirusTotal, fossology)

- Worked with agencies to capture security process/audit, transport, and component manifesting requirements
- Integrating Amazon Web Services for elastic test agents, and disaster recovery flows for system images and software artifacts

MaestroDev: *VP, Product Engineering* **2011-2012**

Led the design and development of a DevOps tool suite to support emerging enterprise markets with software development-through-operations workflow automation

- Managed a globally distributed staff of software engineers, designers, technical writers, and administrators
- Communicated with executive stakeholders regarding strategy, execution and operational needs
- Worked with customers and test sites to optimize the delivery, monitoring and operation of system components
- Built a Ruote-based workflow engine that integrated best-of-breed tools in the SCM, CI, deployment, provisioning and configuration management arena

Dozer Software LLC, Principal - Present

Provide rapid prototyping, system design, and software engineering services to local, defense and mining organizations

Accenture National Security Services: *Technical Architect* **2007-2010**

Developed a semantic wiki/text engineering platform for document/intelligence inference for US ARMY CDI

- Processing document similarity and entity extraction algorithms to create "linkable" relationships
- Integrating open source projects Grails, GATE, UIMA, Tika, Jena to minimize costs and license constraints
- Architected for component distribution and high-scalability using publish-subscribe/XML/RDF interconnects

Architected and designed a dynamic data discovery and visualization service platform for USAF (SAF)

- Utilizing off-the-shelf software frameworks (Grails and OSGi) for maximum developmental performance
- Implemented multiple search algorithms to identify location/geo-based and other information
- Following Scrum agile software engineering methodology with geo-distributed team

Established and architected an open source contextual collaboration suite for the USAF

- Developed early prototype using Java/OSGi frameworks and HTTP interfaces
- Ported design to Ruby and Rails, RESTful, and Service-Oriented Architecture
- Published whitepapers and spoke at various Open Source and defense conferences and symposiums

Raytheon Missile Systems – Advanced Programs: *Principal Software Engineer* **2005–2007**

Developed a tactically-aware service integration platform, based on Enterprise Service Bus principals

- Created software development kit (API, documentation and tooling) for service developers
- Developed information assurance and security mechanisms to support multi-level classification support
- Participated in industry Expert Groups to drive specifications and standards towards company needs
- Operated in an Open development environment using GForge, Subversion, Maven, and Continuum

Lead engineer for the development of an unmanned system's mission computer/processing platform

- Performed processing platform trade study, researching against performance, scalability, size, weight, power, and interconnection requirements

- Supported initial flight testing of hardware, applied modifications to design as necessary

- Engineered a custom interface and mount for easy connection of communications and power adapters

- Integrated tactical and commercial datalinks to provide mobile ad-hoc network connectivity

Served as a Co-Chair of the Communications Technology Interest Group and Software Engineering Networks

- Organized and participate in large symposiums and workshops, reviewing content and managing events

- Fostered Open Technology Development and the use of Open Source software and tools

Raytheon Missile Systems – Operations Research: *Systems Engineer* **2003-2005**

Systems Integration Plus, Inc.: *Systems Engineer* **2001-2003**

ITT Technical Institute: *Adjunct Instructor* **2001-2003**

Pilot2Pilot Incorporated: *President* **2000-2001**

Marine Corps Community Services: *IT Special Projects Manager* **1997-2000**

United States Air Force: *Wideband/Satellite Radio Technician* **1990-1994**

Education

University of Maryland, Adelphi, Maryland
December 2008
Master of Software Engineering

University of Maryland, Kadena AB,
Okinawa,
October 1999
Bachelor of Science in Computer Studies

University of Arkansas, Camp Foster, Okinawa,
September 1999
Completed training, course work and requisite projects for mid-level management certification

Green Hills Software, Tucson, AZ
October 2003
Completed training and certification for Integrity
RTOS

Redhat, San Francisco, CA
May 2001
Completed RHCE training and
certification

Wind River Systems, Alameda, California
September 2001
Completed coursework covering VxWorks 5.4 and Tornado
2.0

Links

"Github", Source code
"Bitbucket", Source code
"kitplummer.github.io", Blog
"The Modern Software Engineering Enterprise", Paper