Steven B. Cherry
Cloud Architect / DevOps / Developer
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Objectives

To prototype and implement cloud solutions utilizing modern development practices such as DevOps, configuration as code, containerization, and gitflow. To accelerate development and mentor developers in popular stacks.

To lead the implementation of emerging technologies and cultivate environments in which robust, scalable, and automated enterprise-class information systems can be created. To bring to bear twenty-five years of experience in solving information technology problems.

Key Skills
- ✓ Development acceleration through CI/CD automation for node.js, angular, C#, and cloud-native services.
- ✓ DevOps build, deploy, virtualization, and containerization. Kubernetes/AKS and Docker.
- ✓ Extensive expertise in linux operating systems, command line, and containers.
- ✓ Centralized logging.
- ✓ Automation of AWS, Azure, and Google Cloud architecture and applying gitflow and feature branching to development
- ✓ Pipeline automation software: gitlab, VSTS, bamboo, gulp
- ✓ Alerting and monitoring implementation for application and stack. Support escalation.
- ✓ Auto-scaling cloud resources.
- ✓ Build automation, deployment, gitflow, release, mentoring, and team training.
- ✓ Full Stack systems development and architecture. Object-oriented javascript, Angular.js, Node.js, Python, React, Ember.js, etc.
- ✓ Development process: Agile, Continuous Integration,
- ✓ Docker for automated unit testing and integration.
- ✓ Application scaffolding and build systems: Nodejs, Grunt, Gulp, Yeoman, Composer, node-cli, angular-cli.
- ✓ Migrations. Migrating applications, databases, and application containers to the cloud.
- ✓ Evaluation and implementation of technologies, development software and libraries to solve enterprise problems. Emphasis on fast iterations, configuration as code, and fail fast.
- ✓ API construction: Creating and populating databases. Authoring object-oriented and/or REST APIs in Node, Perl, Python, and PHP. Integrating them into enterprise security.
- ✓ Databases: MySQL, postgreSQL, sqlite, InfluxDB, some DB2, and some Oracle.
- ✓ ETL: Pentaho configuration and management.

- ✓ Data presentation, generation of charts, graphs, and data visualization for web applications. Employed tools like GD::Graph and D3 javascript libraries.
- ✓ System development environments and version control systems. GIT, SVN, CVS, Mercurial, Eclipse, PHP Storm, Coda, ClearCase, gitlab.
- ✓ Operating Systems: Linux: CentOS, RedHat, Arch, Ubuntu, Debian, Mint, and Mac.
- ✓ Container operating systems.

Recent Exposure
- ✓ Azure Cloud Platform
- ✓ Terraform
- ✓ AKS
- ✓ VSTS
- ✓ TICK Stack
- ✓ AWS Data Lake architecture

Employment History

Cloud Architect / DevOps Architect
Ryder Logistics, Novi, MI
11/24/2017 – 2/11/2019

DevOps
- ✓ Creation of DevOps practices and transfer to enterprise operations
- ✓ Creation of build and deployment automation to Azure and AWS containers
- ✓ Creation of application alerting and monitoring with Kubernetes, Sensu, and OpsGenie

Team Leadership
- ✓ Creation, implement, and instruction of gitflow, branching and release process to development team
- ✓ Sprint planning and task creation with product owner and team
- ✓ Led bi-weekly hackathons revolving around technologies new to the organization
- ✓ Supported AWS data lake creation from a DevOps perspective. Hive and s3 bucket ingestion automation and error control with Lambda functions.

Cloud Architecture
- ✓ Creation and configuration of AWS Kubernetes and Azure AKS pre-production environments with automated build and deployment
- ✓ Creation of docker image registries to facilitate Kubernetes cluster deployment of node.js and c# applications
- ✓ Creation of Azure application containers to run node.js web applications
- ✓ Strategies for securing passwords and other development credentials
- ✓ Configuration-as-code and even networking-as-code are attainable goals.

DevOps / Senior Programmer / Developer / Analyst
North American Bancard, Troy, MI
11/20/2014 – 11/23/2017

DevOps
- ✓ Automation of software deployments in Bamboo and supporting build servers.
- ✓ Administration of AWS and internal virtual machines with Puppet and Ansible.
- ✓ Creation and configuration management of systemctl scripts for nodejs applications
- ✓ Application configuration and automation from puppet to bamboo creating one-click deployments.
- ✓ Alerting and monitoring with sensu and logging to an ELK stack.

Support and analysis for mission critical systems
- ✓ Diagnosis, recommendation, and repair of custom internal software written in PHP, PERL, Javascript, and PostgreSQL.
- ✓ Maintain test environments for internal software suites. Employed Vagrant to quickly spin up virtual servers for development and code fixes, puppet for administration.
- ✓ Pentaho troubleshooting and creation of a development and production environment at AWS.
- ✓ Identification and elimination of bottlenecks in web applications.
- ✓ Modifications to linux legacy scripting, PERL, bash, python. These are typically business processes acting on large files, data, reporting, phone systems, and email.

Senior Programmer / Developer
Custom Business Solutions, Novi, MI
11/20/2013 – 11/2014

Application development for local energy provider
- ✓ Developed internal, high visibility, responsive application in Angular.js and Foundation.
- ✓ Designed specification for the REST api that this application uses to pass JSON payloads. Worked with the back-end team to meet the needs of the application.
- ✓ Continuously improved the application for weekly code updates.
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Senior Programmer / Developer
The Detroit News, Detroit, MI
12/2006 – 10/2013

Application development and systems analysis for large market newspaper. Created development environments and standards. Stack: LAMP and node.js. Automation with bash scripting and cron. Alerting and monitoring.

Programmer / Consultant
Custom Business Solutions, Novi, MI
1/2005 – 12/2006

Consulting project work for medical statistics firm and clinical medical trials. Stack: MS Access, MS Excel.

Programmer / Consultant
Technology Resource Group, Royal Oak, MI
11/2002 – 12/2004

Application development for mail fulfillment company and automotive supplier. Stack: Linux, PERL, JavaScript, Apache, MySQL, and Tk.

Senior Programmer / Web Operations
Hass MS&L, Ann Arbor, MI
10/1998 – 9/2002

Boutique Developer: LAMP stack web applications for automotive manufacturers. Production and pre-production environment operations.

Programmer / Consultant
Enterprise USA Inc., Farmington, MI
9/1996 - 10/1998

Web Application Development for a number of clients. LAMP stack. Linux administration.

Education

Baker College of Flint – CIS/Programming 1995-1997
Grand Valley State University – Communications 1990-1991
Lansing Community College – Prerequisites 1988-1990

Interests

My hobby projects keep me sharp and engaged. In my free time I make photographic prints, frames, collect records, dabble in amateur radio (kd8qzz), play handball, repair vintage diesel cars and transistor electronics, modify microphones, and home automation.

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