

Greg Albrecht

Software Developer-at-large. EMS & Disaster Responder.

gba@gregalbrecht.com

Summary

Software Developer with extensive background in Systems & Network Engineering. Clients have ranged from finance & education to telecommunications and entertainment. Currently advocating DevOps & Continuous Deployment as means for rapid project development, fault tolerance and service resiliency.

Specialties: Python, Ruby, Chef, Systems Architecture.

Experience

Rock Medicine Emergency Medical Responder at Haight Ashbury Free Clinics

August 2009 - Present (3 years 6 months)

Provided emergency medical care at large public events throughout the Bay Area.

Senior Software Engineer at Splunk

August 2008 - December 2012 (4 years 5 months)

From May 2011 to Present, Senior Software Engineer - Cloud:

Development & Operations (DevOps) role in producing Splunk's second major product, Splunk Storm, a software-as-a-service version of our existing enterprise product. Lead infrastructure engineering for cloud deployment and architected many solutions for scaling as service utilization grew, including Continuous Integration, Continuous Deployment and Service Oriented Architecture. Served as a mentor for junior developers in helping standardize software quality through reviews, style and coverage.

From August 2008 to May 2011, Software Engineer - QA:

Responsible for testing a major component of our software product, including planning, writing and reporting on tests within the release cycle. Worked with system component engineering teams to test and debug large scale customer issues. Built and maintained large scale system & network stress testing cluster (it found 4 crashes in one night!)

Additional responsibility for System Engineering, including administering the test infrastructure's systems and networks.

Technologies Include:

- * Python
* Ruby

- * OpsCode Chef
- * Amazon AWS
- * Distributed Version Control with Git and Github
- * Centralized Version Control with Perforce
- * Continuous Integration with Atlassian Bamboo
- * Big Data-set management, processing and generation
- * Big Data Index & Search
- * Quality Assurance Engineering
- * Continuous Deployment
- * Automation
- * Sales & Support Engineering
- * Performance Testing
- * Stress Testing
- * Functional Testing
- * Unit Testing
- * Coverage

2 recommendations available upon request

Disaster Action Team Lead at American Red Cross Bay Area

May 2011 - December 2011 (8 months)

Leading teams responding to ongoing American Red Cross Disaster Relief Operations. Our teams are responsible for the tactical Disaster Service response to emergencies throughout the Bay Area. We provide services under the Federal Emergency Management Agencies Emergency Service Function 6, including sheltering, disaster assessment, mass feeding and mass care.

Disaster Services Technology Lead at American Red Cross Bay Area

July 2010 - July 2011 (1 year 1 month)

Currently managing the team responsible for the technology aspect of American Red Cross Disaster Relief Operations. Our team builds, maintains, deploys and operates the communication, network, telephony, satellite and computer assets used in disasters throughout the United States.

Chief Network Mechanic at Late Night Networks

April 1998 - August 2008 (10 years 5 months)

Network consulting.

3 recommendations available upon request

Network Operations Manager at Schematic

May 2005 - July 2008 (3 years 3 months)

Designed and built several high availability web application and content management systems for big-5 media companies. Managed the day to day operations of 40+ FreeBSD & PostgreSQL based application servers. Coordinated the transition of co-location facility. Implemented network monitoring, trouble ticketing, instant messaging, document collaboration, spam filtering and other Microsoft Active Directory authentication based systems. Oversaw the deployment of a nation wide MPLS network that implementing

QoS to ensure delivery of business critical VoIP traffic as well as rich media for clients.

4 recommendations available upon request

Network Engineer at BackBone Communications

January 2004 - May 2005 (1 year 5 months)

Developed VoIP to TDM network to handle an average of 2.5 million minutes per month of both inbound and outbound, international & domestic traffic. Oversaw the deployment of a multi-national MPLS network for a large west-coast banking firm as well as for use in replacing legacy frame-relay networks. Implemented corporate security policies and systems, such as firewalls and VPNs. Performed physical installation both in-house and on-site of equipment and leased-line services.

IT Manager at Ligos Corporation

January 2002 - December 2002 (1 year)

Oversaw and managed day to day IT operations in small office and co-location facility, including maintaining web servers and Directory based Windows 2000 network. Upgraded and developed new & existing on-line store back-end.

Security Engineer at OneSecure

April 2000 - July 2001 (1 year 4 months)

Coordinated the design of a 24/7 Security Operations Center, including high availability network, and associated infrastructure. Maintained and researched security vulnerability archive and lab. Statistical and risk analysis of network traffic, along with forensic and fallout research of intrusions. Deployed LDAP based network services and back-end.

3 recommendations available upon request

Network Engineer at Route 1 Solutions

1999 - 2000 (1 year)

Designed, implemented, upgrade, and document networks for a wide range of customers. Chief duties included security audits, server and firewall configuration, switch routing, establishing VPNs, and testing redundancy.

Systems Administrator at Atlantic Internet Services

June 1998 - December 1999 (1 year 7 months)

Responsible for most aspects of building and maintaining a full service Internet Service Provider including purchasing, installation and configuration of remote access systems providing over 1000 dial-in lines for 3500+ customers across 5 locations. Lead team in charge of merging other acquired service providers networks and customer bases into our own.

Publications

Enough Ruby to be Dangerous

May 2012

Authors: Greg Albrecht

Tutorial on Ruby for Operations Engineers

Skills & Expertise

Python

Ruby

System Architecture

Network Architecture

Debugging

Emergency Management

Public Speaking

Linux

Emergency Medicine

Cloud Computing

On-Call

SaaS

Scalability

Open Source

Big Data

Disaster Recovery

System Administration

Security

Firewalls

Amazon Web Services (AWS)

SQL

Unix

High Availability

Enterprise Software

FreeBSD

Testing

Project Planning

Virtualization

VMware

Chef

DevOps

EMS

ICS

Incident Management

Incident Response

Unix Shell Scripting

Bash

Unit Testing

Functional Testing
ERD
System Deployment
System Testing
Systems Engineering
QA
Disaster Response
Orchestration
Cloud Applications
Managed Services
Mock
Splunk

Certifications

Title 22: Emergency Care of the Sick and Injured
California Department of Forestry & Fire Protection

EMR: Emergency Medical Responder
City College of San Francisco

ICS-100
Emergency Management Institute

Emergency Response
American Red Cross

Bloodborne Pathogens Training: Preventing Disease Transmission
American Red Cross

Administering Emergency Oxygen
American Red Cross

BLS: CPR/AED For the Professional Rescuer and Healthcare Provider
American Red Cross

CPR and AED for the Community and Workplace
American Safety & Health Institute

Hazardous Materials First Responder
Florida Highway Patrol

Powered Industrial Truck Operator's Permit, Forklift Operation
American Red Cross

Education

California Department of Forestry & Fire Protection

Emergency Care of the Sick and Injured, Title 22 Public Safety, 2011 - 2011

Activities and Societies: CalFire

City College of San Francisco

EMR: Emergency Medical Responder, Emergency Medicine, 2011 - 2011

Activities and Societies: American Red Cross, San Francisco Fire Department

San Francisco Fire Department

Disaster Service Worker, Emergency Response, Disaster Response, Search and Rescue, 2008 - 2011

Activities and Societies: San Francisco Neighborhood Emergency Response Team, San Francisco Fire Department, Federal Emergency Management Agency, Citizen Corps.

City College of San Francisco

History, Political Science, 2006 - 2011

Intercultural Institute of California

ACTFL Novice, Korean Language and Culture, 2008 - 2008

Broward Community College

Developmental Psychology, 2003 - 2003

City College of San Francisco

Emergency Medical Technician, Emergency Medical Technology/Technician (EMT Paramedic), 2012

Interests

Amateur Radio, Emergency Medicine, Disaster Response, Map Collecting.

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12 people have recommended Greg

"Greg designed, implemented, and maintained our infrastructure as code on Splunk Storm. He knows Chef, Opscode, AWS, continuous deployment, and how these all work together well enough to explain it to even the likes of me, and spent hours at a white board doing so. Also, Greg works days, nights, and weekends hitting deadlines and solving production issues. He is a brainy kind of guy who likes to do stuff right. There's a let's-do-something-that-matters flare in Greg that I would enjoy working with again."

— **Alex Munk**, *Senior Product Manager - Splunk Storm, Splunk*, worked directly with Greg at Splunk

"Greg lead a dev ops team very well as lead software engineer. He has excellent knowledge of Ruby/Chef/Python and is able to make full use of the platform. He has been a driving force of many successful projects in the company. When we worked together on automation development project, his devoted work led to the final success of the project. Worked together on another project based on some concept, Greg grasped the essence and came up with a great idea by his excellent insight and implemented it in a very short time. His energetic and enthusiastic approach in learning new technology inspires and gives me the drive to pursue the same motivation. It was truly my pleasure working with Greg."

— **Jun Sakai**, *Software Engineer, Splunk*, worked directly with Greg at Splunk

"Greg is excellent at his job. My interactions with him are on two levels: deploying software to production and in tracking down bugs on deployed systems. When deploying, Greg remembers the details and performs with calm efficiency when faced with situations that are unexpected. I wouldn't ask for anyone else to be handling deployments. When working with Greg to track down elusive bugs Greg has shown himself to be extremely patient and creative in the analysis of a running system that is not performing as expected. He accepts ideas from peers and works diligently to resolve issues in timely manner."

— **Matthew Purdon**, *Senior Software Developer, Schematic Inc*, worked with Greg at Late Night Networks

"Greg has fixed technical issues in the middle of the night several times, and has done a great job each time."

— **Ryan Lackey**, was Greg's client

"Greg is a detail oriented manager who only has to be told what to do one time to get the job done. His technical skills are tantamount to none, and his dedication to his job is unparalleled. I cannot think of a better IT person."

— **Matthew Whatley**, was Greg's client

"I give Greg the highest praise available to someone in his position: in the time we worked together, I never knew he was doing anything at all. Everything just worked the way it was supposed to and before I even knew I needed it."

— **Greg Hinch**, *Senior Software Developer, Schematic*, worked with Greg at Schematic

"In technology, nothing changes more rapidly, demands a wider array of knowledge, or is more critical than network operations. You don't need someone that kind of knows what they're doing, you need someone that knows exactly what they are doing. Greg is the best of them."

— **Ben Gorton**, *Senior Software Developer, Schematic*, worked with Greg at Schematic

"Greg is one of the most network professional that I have met. His work has been always excellent. Great workmate!"

— **Carlos Zamora**, *Manager, IT/Desktop Support, Schematic*, worked directly with Greg at Schematic

"Greg is one of the most talented people I have ever worked with. He is able to manage incredibly complex systems projects effectively and quickly, without missing any of the fine details. He is exceptionally talented at picking up new languages (programming and embedded OS) very quickly. I highly recommend working with Greg."

— **Christopher Aedo**, *VP, Technology Operations, Schematic*, managed Greg at Schematic

"I've had the distinct pleasure of working with Greg while he was at OneSecure. As one of my first engineers he was instrumental in helping get a 24x7 Security Operations Center up and running. This included, networking infrastructure, systems and services. Greg is an excellent, conscientious, detail-oriented hard worker. Greg's information-security expertise are first rate. I highly recommend him for any job that can suitably challenge him."

— **Avishai (Avi) Avivi**, *Director Operations, OneSecure Inc.*, managed Greg at OneSecure

"Greg has a dynamic personality and is a diligent professional. Very easy to get along with and he bends over backwards to give you the shirt off his back. Greg began his professional career quite early, and has experience and maturity past his years. It would be a pleasure to work with him again. He would be an immediate impact player to any organization."

— **Robert Lee**, *Network Security Engineer, OneSecure, Inc.*, worked directly with Greg at OneSecure

"Greg is an intuitive and detail oriented Security Engineer who is clean and methodical addressing his work while at the same time maintaining the speed, agility and effectiveness that is essential for being a key team player in any Secure Operations Center environment. I always look forward to an opportunity to work with

him again."

— **Barbara Godin**, *engineer, Onesecure*, worked with Greg at OneSecure

[Contact Greg on LinkedIn](#)