

# Bert JW Regeer

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## Skills

- Languages C++ (including 11+), C (including 11+), Python (2.x and 3.x), Java, C#, JavaScript
- Databases PostgreSQL, MySQL, and SQLite 3
- Versioning git, Mercurial, Subversion and CVS
- Security Cryptography primitives and fundamentals, including understanding and mitigating common pitfalls. Familiar building secure software, and addressing various security issues
- Other Bugtraq, JIRA, Confluence, OpenFire (Jabber), Gitlab, Gitorious, Sphinx (Documentation), L<sup>A</sup>T<sub>E</sub>X, Doxygen, Klocwork, VMWare (Fusion, Workstation), VirtualBox, KVM, Jenkins, postfix, nginx, uwsgi, varnish
- IPv4 and IPv6 deployment and software compatibility.
- OS FreeBSD (jails), Mac OS X (10.3 - 10.9), OpenIndiana (Solaris) (zones), Linux (Ubuntu, CentOS), Windows (XP, Vista, 7, 8), VMWare ESXi

## Experience

### Professional

- 2012–current **Lead Software Engineer**, *Tumble Inc*, Parker, CO.
- Manage the company's internal IT infrastructure
  - Prepare quotes for proposals
  - Work with clients to define project scope and timeline of deliverables
  - Develop custom software to meet client needs
- 2010–2014 **Server Systems Integrator (Sr. Software Engineer)**, *Absio Corporation*, Littleton, CO.
- Developed scalable, fault tolerant, and high availability systems using C++, Python, Postgres and ZeroMQ
  - Led small team and worked with other teams to implement features and requirements
  - Drafted, designed, and helped implement all cryptographic decisions for Absio Message
  - Successfully deployed to production for Absio's commercial beta launch
  - Worked with stakeholders to plan and develop future projects and ideas
  - Built various websites using Pyramid, SQLAlchemy, and Bourbon (SASS)
  - Development operations experience:
    - Managed FreeBSD (jails), OpenIndiana (zones), and Linux servers
    - Setup and managed OpenStack on Linux with KVM to allow developers to easily spin up VM's
    - Setup and managed git repository hosting using Gitlab (replaced Gitorious)
    - Setup and managed Jabber server (OpenFire) to allow for easy communication between developers
    - Setup and managed Jenkins continuous integration server, along with build slaves
- 2002–current **System Administrator**, *osnn.net*.
- Administered hosting for a variety of online websites using Apache, PHP, and qmail on FreeBSD.
  - Monitor services for attempted intrusions and outdated software, and update as required
  - Migrated website from one location to another with zero downtime

Parker, CO 80138

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## Contract & Short Term

2006–2013 **System Administrator**, *Partners in Print*.

- Provided on-call support for FreeBSD based web hosting
- Planned and executed a move of the customers hosting from a US to UK based host
- Built and managed a backup solution to allow the business to recover in the event of failed hardware or accidental deletions of content

2009 **Internet/Website Developer**, *AEC Consultants*, Phoenix, AZ.

- Built and designed a new website using PHP best practices (with Zend Framework)
- Designed and built MySQL database tables to store the data required (portfolio/existing projects and new request for proposals)
- Edited copy and designed the layout of various static pages

2007 **Security Auditor**, *University of Advancing Technology*, Tempe, AZ.

- Conducted a general network security audit, and enumerated exploits on the internal student intranet websites
- Identified and documented flaws in running services on the computers on campus
- Analyzed and assessed the security of proprietary network protocols for various services

## Volunteer

2011–current **Goon**, *DEF CON*, Las Vegas.

- Coordinated with other volunteers and hotel staff to outfit and run the event's contest area
- Built and maintained the Contest and Event website

2008–2010 **Volunteer Worker**, *Blackhat*, Las Vegas.

- Coordinated with 40+ volunteers to organize and run the security conference
- Laid networking and power cables, set up classrooms
- Registered and directed attendees around the conference

## Interests & Projects

funcptr Technical notebook named funcptr (short for function pointer) at <http://funcptr.net/>. Includes technical tips and tricks as well as engineering challenges and solutions to help other users solve similar computing problems.

open source Extensive work with the Pylons Python web framework team on improving Pyramid. Additional open source personal projects with on-going code commits available on Github.

near space Worked with a team of other students at the University of Advancing Technology to design, and build a near space balloon capsule, to take pictures, atmospheric measurements, and send location data using APRS over HAM radio. The team had two successful launches, named CONNERY-1 and CONNERY-2, resulting in amazing pictures from the flights.

## Education

2006–2009 **Software Engineering**, *University of Advancing Technology*, Tempe, AZ.

Bachelor of Science: Software Engineering

Major: Computer Programming

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