

Sumit Khanna

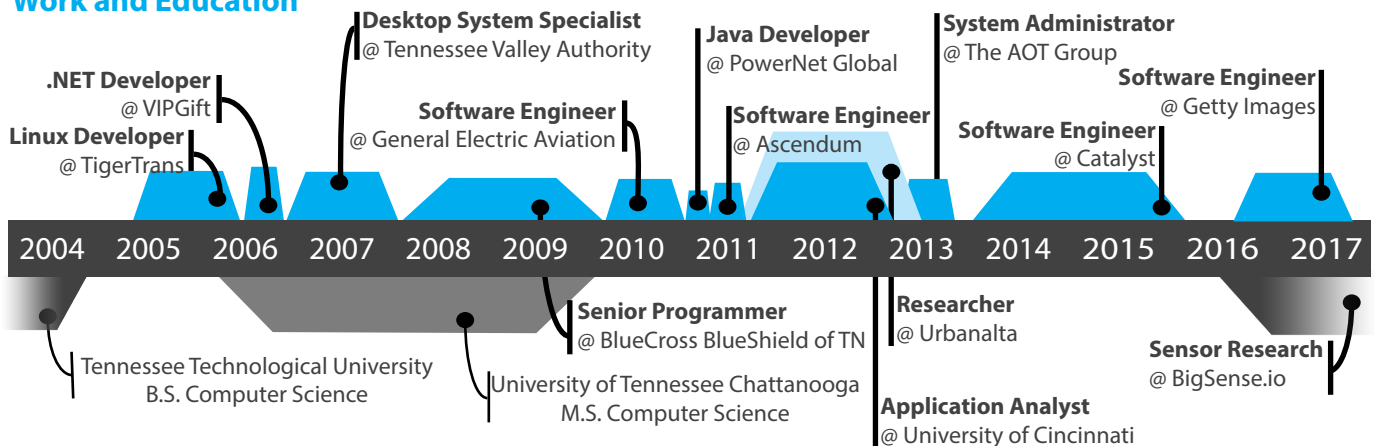
sumit@penguindreams.org



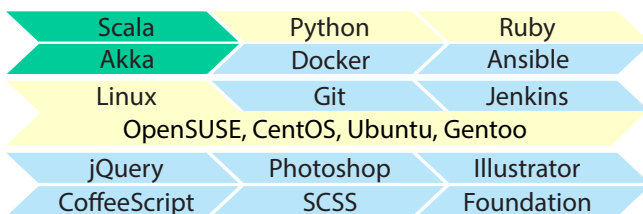
E-mail

Some professionals pad their resumes with bullet points of systems they may have remotely touched or be familiar with. Many staffing companies even tell potential candidates to include certain keywords or move specific qualifications to the top in order to fulfill job requirements. Those are not the positions I'm looking for. The technologies highlighted in this resume represent all the programming languages, operating systems and processes I've actively used in my career. Furthermore, they demonstrate my ability to quickly learn and adapt to new and old technologies, as well as reverse engineer existing unsupported or proprietary systems for use in modern environments. For a full example of my portfolio, visit <http://penguindreams.org>.

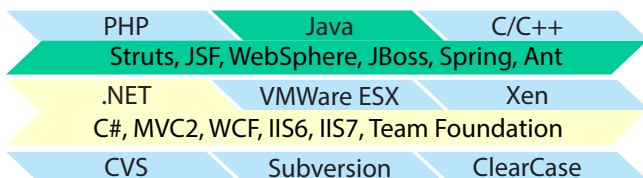
Work and Education



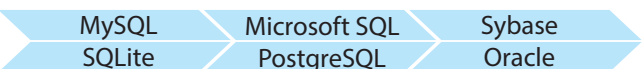
Technologies I Enjoy Working With



Technologies I Have Experience With



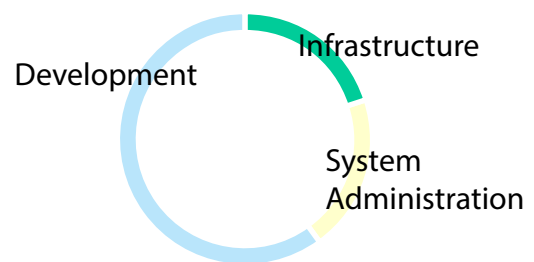
Databases Dialects I'm Familiar With



Websites

PenguinDreams.org - Computer Science
BigSense.io - Sensor Network Research

Experience



Services I've Setup and Administrated

- DC/OS Mesosphere / Docker
- Apache Web Server and Tomcat
- Active Directory and OpenLDAP
- OpenVPN
- Shibboleth (SAML2 Single Sign-On)
- DNS (BIND and Active Directory)
- E-mail (Courier POP/IMAP + Postfix)
- Puppet, Ansible and CFEngine
- Alfresco, Alfresco Share
- Confluence, Bamboo, Jira
- iRise

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Sumit Khanna

sumit@penguindreams.org

<http://penguindreams.org>

Education

University of Tennessee Chattanooga (2005 – 2009)

- Graduated with a Master of Science in Computer Science
- Thesis: “Breaking the Multi-Colored Box: A Study of CAPTCHA”

Tennessee Technological University (2000 – 2004)

- Graduated with Bachelors of Science in Computer Science
- President of Association for Computing Machinery (2003 - 1 year)
- Association for Computing Machinery Executive Board (2004 - 1 year)
- Vice President/President Golden Eagle Sports Car Club (2003 - 1 year)

Independent Research

April 2015 – Current

BigSense.io

BigSense is an independently funded open source environmental sensor network system. Originally called GreenOven, it was built with a grant from the City of Cincinnati to monitor storm water runoff. The REST web service is written in Scala and the LtSense client is written in Python. Packages are available for Debian, Ubuntu, CentOS and openSUSE. BigSense is currently being used in a 400 level Geography class at the University of Dayton, with an open source workbook due to be released soon. For more information, visit <http://bigsense.io>

Work Experience

February 2016 – May 2017

Getty Images

Seattle, Washington, USA

Senior Software Engineer (Contracted through APEX Systems)

- Development for media asset processing micro-services
- Scala, Akka, Akka Persistence, RabbitMQ, PostgreSQL
- Devops work involving Python, Docker, DC/OS Mesosphere, CoreOS, Consul

May 2013 – March 2015

Catalyst IT

Wellington, New Zealand

Software Engineer (Full-time)

- Department of the Prime Minister and Cabinet (Alfresco development)
- Telecom/Spark (web and backend development – Java, Scala, Akka, Puppet, Vagrant)
- OpenStack (Security)
- Ministry of Education (Python, Django)

May 2012 – November 2012

AOT Group

Melbourne, VIC, Australia

System Administrator (September 2012 – November 2012, Contracted)

- Assisted with production data center migration from Brisbane to Melbourne
- VMWare vSphere 5.0, OpenSUSE 11.4, CFEngine Administration
- Active Directory, Power Shell

Developer (May 2012 – August 2012, Contracted)

- PHP Web Application Development with PostgreSQL database
- OpenSUSE 11.4 Server Environment
- OpenSUSE 12.1 development (desktop) environment and Subversion version control

January 2011 – November 2012

Urbanalta Technologies

Cincinnati, OH, USA

Computer Scientist (September 2011 – November 2012, Part-time)

Researcher (January 2011 – September 2011, Volunteer)

- Embedded Linux development (OpenWRT)
- Server/Client software development (Scala 2.9 / Python 2.7 / Python 3 / CPython Extensions)
- Windows 2008, OpenSUSE 11.4/12.1 System Administration
- VMWare vCloud and XenServer Virtualization and Infrastructure Design
- 1-Wire remote sensor development

February 2011 – March 2012 **University of Cincinnati** Cincinnati, OH, USA

Application Analyst (Full-time)

- Identity Management / Implemented Federated Single Sign-On using Shibboleth/SAML2 for InCommon
- Developed web applications and service with Microsoft C# MVC2, WCF
- SuSE Enterprise 11 and Windows 2008/IIS7 System administration
- Administered Confluence, Jira, Repliwab, iRise Definition Center
- Bash and Python scripting; SSIS and BizTalk development

August 2010 – November 2010 **Ascendum Solutions LLC** Blue Ash, OH, USA

Software Engineer (Full-time)

- TOMS Shoes e-Commerce / Web (<http://toms.com>)
- Extended modules and templates for Magento Enterprise 1.6 and 1.9
- Utilized PHP5, MySQL, Redhat Enterprise, CentOS, Subversion

April 2010 – July 2010 **PowerNet Global Communications** Fairfield, OH, USA

Software Engineer II (July 2010, Full-time)

Java Developer (April 2010 – July 2010, Contracted through PSIGroup)

- Development for existing Java desktop application using Swing / JIDE
- Development for Enterprise Java Beans (EJBs) and scheduled jobs running on JBoss
- Utilized Oracle 10g, Eclipse 3.4, Apache Ant, JBoss 4.0, Linux CentoOS, JReport 7
- Linux shell scripting on CentOS for maintenance and diagnostics

January 2010 – March 2010 **General Electric Aviation** Evendale, OH, USA

Software Engineer (Contracted through Tata Consultancy Services / Clairvoyant Techno Solutions)

- Developed internal REST web services on JBoss 4.3 / Java 1.5 / RestEasy API
- Enhanced existing JSF / RichFaces web application
- Utilized Eclipse 3.3, Apache Ant, Spring 3.0 and Oracle 10g Databases

June 2007 – December 2009 **BlueCross BlueShield of TN** Chattanooga, TN, USA

Senior Programmer (August 2008 – December 2009, Full-time)

Programmer (June 2007 – August 2008, Full-time)

- Developed applications (standalone and web) and web services to support e-Business
- Platform: J2EE on IBM WebSphere 6.0/6.1 / AIX
- Created SSIS Packages, maintained DTS packages and utilized Sybase, SQL Server 2005 and Active Directory
- Converted legacy ASP applications into Java applications and web services building upon SOA
- Administrated and Developed for Interwoven Teamsite and OpenDeploy servers

May 2006 – June 2007 **Tennessee Valley Authority** Chattanooga, TN, USA

Desktop System Specialist (Internship)

- Remotely diagnosed, troubleshoot and resolved computer and phone problems
- Trained to use HP Service Desk software

April 2006 – May 2006 **Incentium** (Formerly VIPGift) Chattanooga, TN, USA

.NET Developer (Full-time)

- Developed for and maintained Visual Basic.NET standalone applications
- Designed applications for existing ASP.NET framework
- Worked with Microsoft SQL 2005 Databases and SSIS packages

April 2005 – March 2006 **TigerTranz** Chattanooga, TN, USA

Linux Software Engineer (Full-time)

- Managed Network Security, Firewalls, Linux Servers, LDAP and Spam/Virus Filters
- Wrote several applications in Java, PHP5, C/C++ and MySQL
- Developed documentation for administrators, developers and end users

2001-2003 **TTU Computer Science Labs** Cookeville, TN, USA

Unix System Administrator (Student Position)

- Installed, Updated and Maintained a cluster of 26 Red Hat Linux computers and mail server
- Kept track of lab workers' payroll and hours

Publications

Open Source REST Services for Environmental Sensor Networking

Rettig, Andrew J., Sumit Khanna, and Richard A. Beck.

Applied Geography (2014).

An Open Source Software Approach to Geospatial Sensor Network Standardization for Urban Runoff

Rettig, Andrew J., Sumit Khanna, Dan Heintzelman, and Richard A. Beck.

Computers, Environment and Urban Systems 48 (2014): 28-34.

Monitoring Permeable Paver Runoff with an Open-innovation Geospatial Sensor Network

Rettig, Andrew J., Sumit Khanna, Richard A. Beck, Quinn Wojcik, and Carmen A. McCane.

International Journal of Digital Earth (2014): 1-17