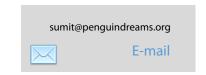
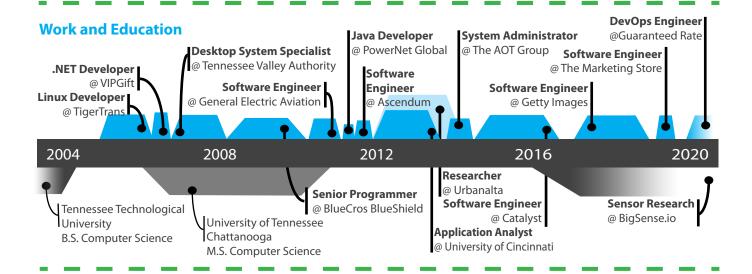
# Sumit Khanna



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 <a href="http://penguindreams.org">http://penguindreams.org</a>.



# **Technologies I Enjoy Working With**

Scala		Python		Ruby	
Akka		Docker		Ansible	
Linux		Git		Jenkins	
OpenSUSE, CentOS, Ubuntu, Gentoo					
vue.js		Photoshop		Illustrator	
CoffeeScript		SCSS	/	CSS Grid	

# **Technologies I Have Experience With**

PHP	Java C/C++				
Struts, JSF, WebSphere, JBoss, Spring, Ant					
.NET	VMWare ESX Xen				
C#, MVC2, WCF, IIS6, IIS7, Team Foundation					
CVS	Subversion ClearCase				

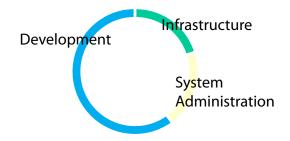
# **Databases Dialects I'm Familiar With**

MySQL	Microsoft SQL	Sybase	
SQLite	PostgreSQL	Oracle	

### **Websites**

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

# **Experience**



# **Services I've Setup and Administrated**

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

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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 <u>Bachelors of Science in Computer Science</u>
- 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.

# **Work Experience**

February 2019– Current

**Guaranteed Rate** 

Chicago, Illinois, USA

# **Devops Engineer**

- AWS Resource Provisioning using Terraform, Packer, and Ansible
- Additional projects in Python, Go and Groovy
- Administered Jenkins, kops (kubernetes), Confluence and Vault

# February 2018 – September 2018 – **The Marketing Store**

Chicago, Illinois, USA

## **Senior Software Engineer**

- Developed software using Java 8, RX Java2, Vertx
- Administered: Jenkins, OpenVPN, AWS ECR, Build and testing pipelines
- Worked on a green field backend service for the McDonalnds Monopoly game.

## 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 / 12.1 desktop and Subversion version control

January 2011 – November 2012 **Urbanalta Technologies** 

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, Repliweb, 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

Chattanooga, TN, 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 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, troubleshot 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

Cincinnati, OH, USA

# **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

2000 SurfNChattanooga

Chattanooga, TN

HTML/Graphics Designer (Part-time)

Designed HTML templates for commercial websites and graphics using LView Pro

#### **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