2444 E Del Rio Dr.
Tempe, AZ 85282

VAN PATTERSON

www.linkedin.com/in/vanpatterson

(602) 300-3282
vanpatterson@gmail.com

IT ENTERPRISE ARCHITECT AND SUSTAINABILITY EXPERT

IT infrastructure professional with extensive experience in enterprise environments designing, building, and maintaining world-class networks and providing top notch customer service to diverse clients. Ability to manage teams and complete complex projects on time and within budget. Also currently working on regenerative solutions to food system problems.

EDUCATION

Gilbert, AZ　　　　　　　　　　**University of Arizona**　　　　　　　　　　**Sep 2018 – Present**
- Web Development Bootcamp
- Coursework: HTML, CSS3, Javascript, jQuery, Bootstrap, Express.js, Node.js, React.js, MongoDB, MySQL, Java, Git.

Tempe, AZ　　　　　　　　　　**Arizona State University**　　　　　　　　　　**Aug 2013 – May 2015**
- Master's in Sustainable Solutions
- Graduate Coursework: emerging technologies, uncertainty in decision making and policy, transformational change methodology, food system sustainability, corporate sustainability, sustainable transportation, urban dynamics, mathematical sustainability tools, qualitative research, sustainability science, advanced earth systems engineering, sustainability communications.

Chandler, AZ　　　　　　　　　　**Chandler-Gilbert Community College**　　　　　　　　　　**Fall 2012**
- LEED Green Associate: coursework in sustainable building practices culminating in LEED certification.

Tucson, AZ　　　　　　　　　　**University of Arizona**　　　　　　　　　　**Aug 1993 – Dec 1997**
- B.S. in Business Administration, December 1997, *magna cum laude*.

SUSTAINABILITY EXPERIENCE

Founder　　　　　　　　　　**God of Rain**　　　　　　　　　　**Nov 2018 – Present**
- Currently creating a desert-adapted food forest, regenerative showcase and education center in Tucson, AZ.

Regenerative Systems Project Manager　　　　**Carbon Nation**　　　　**May 2015 – Jul 2016**
- Advocated regenerative agriculture as a solution set to climate change, environmental and social decay, and economic hardship.
- Helped create and fund scientific research supporting the restoration of the world's agricultural soils.
- Directed sustainability projects and daily business operations.
- Facilitated the educational mission of the organization through feature film and movie short production.
- Coordinated vast network of sustainability resources working on soil health and related issues.

Graduate Research Assistant　　　　**Arizona State University**　　　　**Aug 2014 – Jun 2015**
- Collaborated on background research for new book on sustainability in suburban cities using Phoenix as a case study.
- Conducted critical analyses of current and past urban sustainability studies and metrics.
- Formulated and shaped content for hypotheses on the future prospects for arid desert cities in terms of sustainability.
- Generated educational materials for new university curriculum on urban sustainability challenges.

Transportation Sustainability Intern　　　　**City of Phoenix**　　　　**Jun 2014 – Oct 2014**
- Designed and advanced bicycling infrastructure in Phoenix including bike share, bike lanes and paths, and connectivity analysis and presented independent research on sustainable mobility.

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IT EXPERIENCE

Enterprise Architect   **DriveTime**   **Jul 2016 – Present**

- Responsible for major engineering systems design, implementation, and maintenance including Nutanix, Citrix, NetApp, Netscalers, vmWare, Cohesity, Active Directory, and custom business applications,
- Integral part of small team that manages datacenter design and operations for the entire company.

Assistant Director of IT infrastructure   **DriveTime**   **Jan 2012 – Aug 2013**

- Built a world-class enterprise network and set strategic direction for IT infrastructure.
- Managed high-powered network engineering team and multimillion dollar infrastructure budget.
- Aligned business goals for growth, productivity and flexibility with technology directives, budgets, and projects.
- Mentored junior employees for technical and personal development and career advancement.
- Maintained and continually evaluated all major components of existing infrastructure for potential innovation and continuous improvement.
- Guided and streamlined system upgrades, application deployment, customer service, and new technology implementation.
- Architected complete disaster recovery system between private cloud datacenters with VMWare Site Recovery Manager, EMC SAN technologies, and mirrored infrastructure.

Senior Network Engineer & Team Lead   **DriveTime**   **Jan 2007 – Jan 2012**

- Designed, built, and maintained all major components of network infrastructure including servers, routers, switches, storage area network, firewalls, wireless, MPLS network, layered security, and application support.
- Performed system upgrades, application deployment, and new technology implementation.
- Managed network operations at remote locations through monitoring, third tier support, and rotating 24 hour on-call shifts.
- Led enterprise network projects such as wireless deployment, thin client rollout, laptop encryption, automated software patching, hardware load balancing, and server consolidation.
- Virtualized 90% of network servers on VMWare ESX platform, reducing costs and enabling agile response to rapid business growth.
- Performed complete SAN migration from HP EVA platform to 150TB EMC VMAX system.
- Built robust, layered firewall infrastructure using Microsoft and Cisco technologies.

Network Engineer   **DriveTime**   **Nov 2000 – Jan 2007**

- Architected a companywide operating system conversion from Windows NT 4.0 and Netware to Windows 2000.
- Built company's Active Directory infrastructure.
- Relocated primary corporate datacenter to a new company headquarters location.
- Engineered IT infrastructure and processes for rapid operations expansion, including the launch of dozens of new locations on a continually aggressive schedule.
- Upgraded entire Microsoft Exchange 5.5 email environment to Exchange 2003.
- Designed and implemented substantial network upgrades including Microsoft terminal servers, firewalls, OWA, VPN, internet monitoring, NLB, antivirus protection, email spam filtering, network management systems, and data transfers.
- Automated the deployment of corporate productivity applications.

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CERTIFICATIONS

Global Reporting Initiative (GRI) Training   **October 2015**

LEED Certification   **October 2012**
   LEED Certified Green Associate

Microsoft Certified (MCP# 1345705)   **1999 – present**
Microsoft Certified Systems Engineer (MCSE)
Microsoft Windows 2003, Microsoft Windows 2000
Microsoft Certified Systems Administrator (MCSA)
Microsoft Windows 2003, Microsoft Windows 2000

Cisco Certified (CSCO10251811)   **2001 – 2011**
Cisco Certified Network Professional (CCNP)
Routing and Switching
Cisco Certified Network Associate (CCNA)
Routing and Switching

CompTIA Certified   **1999 – present**
A+ Certified

SYSTEMS EXPERIENCE

Hardware	Software	Protocols
Nutanix hyperconverged stack	Nutanix	TCP/IP
Cisco Routers	Windows Server	EIGRP
1700 | 1800 | 2600 | 2800 | 3600 | 7200	2003 | 2008 | 2012 | 2016	VLSM
Cisco Switches	Windows XP | Vista | 10	DHCP
2900 | 5500 | 6500 | MDS 9500	Active Directory	DNS
EMC VMAX and VNX SAN Storage	Group Policy	FTP/SFTP/FTPS
HP C7000 BladeSystems	Windows Certificate Services	RDP
HP BL460 and BL870 Blade Servers	VMware ESX	802.1x
HP ProLiant Servers	3.5 | 4.0 | 5.0 | 6.0 | 6.5	802.1q
Cisco PIX/ASA Firewalls	VMWare vSphere	WPA2
Cisco ACE/GSS Load Balancers	Solarwinds	HSRP/VRRP
Cisco IronPort	Citrix	MPLS
EMC Avamar Backup and Recovery	Netscaler	QoS
Exagrid Backup Systems	Cisco IronPort	NAT/PAT
HP EVA 5000/4400 & MSA Storage	Microsoft Exchange	SMTP/POP/IMAP
Juniper SA4000 SSL VPN	5.5 | 2003 | 2007 | 2010 | 2015	STP
Symbol Handhelds and Wireless	NetApp	VLAN/VTP
Cisco 5500 Wireless Controller and APs	Cohesity	RADIUS
HP Procurve Switches	Sophos Antivirus	SNMP
2524 | 4000 | 2650 | 5400	McAfee Antivirus	NTP
Wyse Thin Clients	Microsoft WSUS	WINS
HP 10000 Series Racks	Remote Desktop Services	PoE