Alex Clark

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About

Alex Clark is a **Python Web Developer** from Baltimore, Maryland, USA living in Bethesda, Maryland. He has a **Bachelor of Science in Computer Science** from Loyola University in Maryland and has worked as a **Network Engineer, Software Engineer, Systems Administrator** and **Technical Team Leader** since May, 1998. He is also the **President of DC Python**, a non-profit organization he co-founded to promote and support the use of Python software in DC.

Profiles

GitHub | LinkedIn | Twitter

Skills

Web Development	Python	Systems	Networking
• HTML	• Django	• Apple macOS Unix	• TCP/IP
• CSS	• Pyramid	• Ubuntu Linux	• CIFS
• JavaScript	• Plone	• CentOS Linux	• NFS
	• Zope	• Microsoft Windows	• DNS

Education

Bachelor of Science in Computer Science

Loyola University Maryland

January, 1999

http://www.loyola.edu/academics/computer-science

Work Experience

ACLARK.NET, LLC

Partner & Python Web Developer

2004 — Present

http://aclark.net

- Develop and deploy, support and maintain Python web applications with Django, Plone, Pyramid & Zope and related technologies e.g. HTML/CSS/JavaScript.
- Serve government, non-profit and private sector clients e.g. NASA, National Geographic Society and Socialcode (a Washington Post company.)
- Develop and maintain complex IT infrastructure with Amazon Web Services (AWS), CloudFlare, Rackspace Cloud, etc.
- Provide production operations support.

Neurophysiology Imaging Facility (NIF) → Division of Intramural Research Programs (DIRP) → National Institute of Mental Health (NIMH) → National Institutes of Health (NIH)

Systems Administrator

March, 2013 — Present

http://www.nimh.nih.gov/labs-at-nimh/research-areas/research-support-services

- Evaluate and recommend hardware and software for purchase by NIF.
- Install, configure and maintain hardware and software.
- Troubleshoot and resolve hardware and software problems.
- Install, configure and maintain operating systems, web server, content management system, FTP server, directory services, file sharing services, revision control system, and backups.
- Manage network and system security.
- Analyze network performance and access to public resources.
- Provide desktop support to NIF staff, resolve productivity issues.
- Provide liaison to NIH CIT on infrastructure and security related issues.

Scientific and Statistical Computing Core (SSCC) → Division of Intramural Research Programs (DIRP) → National Institute of Mental Health (NIMH) → National Institutes of Health (NIH)

May, 2002 — October, 2005

Systems Administrator

http://www.nimh.nih.gov/labs-at-nimh/research-areas/research-support-services

- Research and recommend hardware for purchase.
- Install, configure and maintain server and desktop hardware.
- Troubleshoot and resolve hardware problems.

- Install, configure and maintain operating systems, web server, content management system, FTP server, directory services, file sharing services, revision control system, and tape backups.

- Manage network and system security.

- Analyze network performance and access to public resources.

- Provide desktop support to SSCC members, resolved productivity issues.

- Provide liaison to NIH CIT on infrastructure and security related issues.

- Manage content management system, provide instruction to SSCC members on how to add and edit content.

- Design and implement new site technology.

- Respond to and resolve web site issues for the SSCC and AFNI community.

Genuity

Network Engineer

October, 1998 — November, 2001

https://en.wikipedia.org/wiki/BBN_Technologies

- Developed Perl and Expect software to support remote configuration of over 2,000 Cisco 2511 Access Servers, Equinox Terminal Servers, and Cisco Catalyst 1900/2820 Ethernet Switches.

- Developed Perl CGI software to support remote configuration of access servers with over 4 ingress T1 data lines via SNMP e.g. Cisco 5400, Lucent APX 8000, Nortel CVX 1800.

- Configured over 2,000 Cisco Access Servers, Equinox Terminal Servers and Cisco Catalyst Ethernet Switches.

- Installed and configured Debian Linux, Redhat Linux, Sun Microsystems Solaris Unix and Microsoft Windows workstations and servers.

- Configured Linux kernel to support myriad network interface cards.

- Researched and resolved complex network connectivity issues.

- Verified successful negotiation of TCP, PPP and L2TP protocols through dial-up connections between client programs and remote access servers.

- Performed maintenance on AOLnet and BBN Dialinx dial-up networks.

- Provided production operations support.

Charm Net

Systems Administrator

January, 1998 — August, 1998

http://www.businesswire.com/news/home/20070125005632/en/DataPoint-Acquires-Award-Winning-Charm-Net

- Managed 4 BSDI Unix servers for over 2,000 users.

- Installed and configured DNS, NFS, Sendmail, Apache, INND and Dump/Restore.

- Installed and configured hardware and software for streaming FM radio to the internet.

- Installed and configured BSDI Unix servers and Microsoft Windows workstations and servers.

- Provided production operations support.

Loyola University Maryland

Help Desk Consultant & Student Technician

August, 1996 — November, 1997

http://www.loyola.edu/department/technology-services

- Provided telephone and in-person technical support to students, faculty, and administrators.
- Performed installation, maintenance, and trouble-shooting of hardware and software in labs, offices, and dormitories.
- Installed and configured Sun Microsystems Solaris Unix, Slackware Linux, Redhat Linux and Microsoft Windows workstations and servers.
- Provided production operations support.

Volunteer Work

Pillow

Fork Author & Project Leader

July, 2010 — Present

http://python-pillow.org

- Forked popular Python Imaging Library (PIL) software to create frequently-updated and well-maintained version.
- Foster growth of core development team from single member to five members over five years.
- Write and submit grant proposal to fund Python 3 compatible version of Pillow; sent to Python Software Foundation February 28, 2013; passed unanimously on March 4, 2013.
- Implement and manage quarterly release schedule.
- Continuously oversee development to ensure best possible quality of releases.

DC Python

Co-Founder & President

2008 — Present

http://dcpython.org

- Co-founded 501(c)(3) non-profit organization to promote & support Python software in DC.

Parkwood Residents Association (PRA)

Webmaster & Executive Committee Member

2014 — Present

http://parkwoodresidents.org

Awards

Startup Row Winner PyCon 2012

PythonPackages

March, 2012

http://pythonpackages.com

"PythonPackages began in October 2011 as a fun way to provide useful information to the Python community. Since then hundreds of folks have visited the site to feature their favorite Python packages, for a total of over 10K packages featured. New features have come regularly, and some new features are waiting in the wings, about to be launched."

Publications

Plone 3.3 Site Administration

PACKT Publishing Limited

July, 2010

https://www.packtpub.com/web-development/plone-33-site-administration

"Manage your site like a Plone professional."