

MICHAEL W. BOGUCKI

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Work History

Yello Co.

2017- Present

Sr Devops Engineer

- Part of Infrastructure-team supporting AWS environments both in commercial and government spaces.
- Support and deploy systems and environments, using Chef, Terraform, and Ansible.
- Developed various python-based tools to aid in supporting various environments.
- Provide systems support to various ElasticSearch-Clusters in environments ranging from Production to dev.
- Developed python tool to synchronize and migrate elasticsearch clusters from 2.x to 5.x
- Part of team responsible for Yello becoming FedRamp Approved as well as gaining access to GovCloud AWS.

Hyatt Hotels Corp.

2015 – 2017

Sr. Operations and Systems Engineer

- Part of team responsible for migrating from AT&T-data-center to private-based data-center.
- Responsible for reverse engineering various servers, architectures, scripts as part of data-center migration.
- Coded various ansible-playbooks to provision and deploy both Apache and CQ-based servers from bare-metal.
- Implemented and supported various AWS/Cloud based applications and projects.
- Coded python-based provisioner to replace commercial Automic-application in deploying AWS/Hycam application.
- Developed python-based backup/scheduler-utility to streamline AMI-snapshots in AWS.
- Regular user of command-line ansible for day-to-day administration tasks.

ZoroTools, Inc

2011 – 2015

Sr Linux / Cloud Administrator

- Joined start-up as a team of two systems administrators. Co-developed infrastructure to present standing.
- Implemented Nagios to monitor entire infrastructure; later extended with python to automate addition of instances.
- Developed various cloud-based utilities, in python and boto to allow for easier utilization of cloud infrastructure.
- Wrote python-based parsers to handle data-transactions between invoices and databases.
- Saved company \$18k with the development of a Linux/Samba based file-server and batch-processing system.
- Coded a backup solution through a combination of Python, Duplicity, and the AWS/S3 services.
- As of 2014, sole-systems-administrator of infrastructure.

General board of pensions and health benefits

2008 - 2011

HP/UX Systems Administrator / Systems Analyst

- Provide HP-UX installation, maintenance, upgrade, security, and disaster recovery.
- Develop and document custom tools and software, in Perl, Sed, Awk, and Shell.
- Provide back-end application support to Red Hat Linux, MySQL, and Lawson financial applications.
- Primary administrator for application, system, and mailbox restoration; utilizing HP Data Protector.
- Coordinated move and relocation of Unix and Backup hardware to new headquarters.

Chicago Board of Trade

2000 - 2007

Solaris Systems Administrator

- Involved in day-to-day operation of 300+ corporate systems running Solaris 8 through 10.
- Installation and support of applications such as QStar, VistaPlus, Solstice DiskSuite, Reuters DACS.
- Secondary support for a wide variety of internal infrastructure applications.(Apache, NIS, NFS, NTP, Samba)
- Selected to team responsible for decommissioning of obsolete data center servers.
- Monitored and scheduled backups via Veritas Netbackup Application.
- Planned, designed and implemented Lantronix Lightwave Console Server Infrastructure.

Electronic Visualization Laboratory

1997 - 2000

Engineering Researcher / Assistant

- Developed device drivers, in C, for the Ascension SpacePad Tracking System, on the Linux OS.
- Co-Developed Duo-View Visualization System and prototyped Immersa-Desk III Stereo Sync Driver.
- Provided Unix administration support and maintenance to a variety of SGI and Linux systems.
- Maintained hardware such as the CAVE, the Immersa-Desks, and various spatial tracking systems.
- Primary Red Hat Linux support-specialist; in development and deployment of prototype Access Grid Node.

CCS (Cooperative Computer Services)

1996 - 1999

Computer Operator / Technical Support

- Performed various duties related to Unix Systems Administration on Sequent and Sun Solaris 7 servers.
- Conducted daily backups, compilations, and report generation for NSLS Patron Database.
- Routinely relocated generated reports to remote site for distribution throughout the NSLS network.
- Provided technical support for NSLS (North Suburban Library Systems) customers.

Oakton Community College

1992 - 1995

Manufacturing Lab Aid and Technician

- Part of team that developed a robotics work-cell prototype. Developed code for the robotics cell integration.
- Repaired, maintained, and upgraded computer systems, robotic systems, and PLC trainers.
- Co-Lectured programming fundamentals for "Introduction to Robotics" course.

Consulting Experience

Rush University Medical Center

2014 – Present

Engineering/Prototyping Consultant

- Designed and fabricated an electromechanical prototype that tests the effects of time-delays, on food choices, in the context of vending-machine snacks.
- Developed an inexpensive IR-Beam-Break sensor, using a hamming-pattern to reduce blind-spots and false trips.
- Fabricated unique magnetic-mounting-method for attaching said prototype to a variety of vending-machines.

VRCO

2001 - 2009

Engineering Consultant

- Designed and prototyped a medical device for an experimental treatment of Amblyopia. A pic microcontroller controlled the optical state of a custom-built liquid-crystal headset.
- Developed low-level device-drivers, in C and Python, to control this prototype system.

Murray Consulting

1999 - 2010

Engineering Consultant

- Provided engineering, manufacturing and servicing of a human-computer-interface device, commercially known as "Wanda". Said design is based on a surface mounted 16f876 micro controller and interfaces to a PC via the serial port.
- Re-Engineered "WandBox" prototype to take advantage of less noisier operational amplifiers as well as converted the wire-wrapped design to a circuit board form-factor in order to speed up the assembly process and allow for faster servicing and repair.

Computer Skills

- *Programming Languages:*
 - GCC/++, CCS PICC, HTML, Ksh, Bash, Sed, Awk, Python, Ansible, Terraform, Ruby.
- *Operating Systems:*
 - Windows-XP, Linux (Redhat, Slackware, Ubuntu, CentOS), Solaris 8,9,10., HP/UX 11.11i., MacOSX
- *Cloud Computing Services:*
 - Amazon EC2 (Virtual servers), Auto Scaling, Elastic Load Balancing, Amazon CloudFront (CDN), AWS IAM (Identity and Access Management), Amazon CloudWatch (monitoring), Amazon Route 53 (DNS management), Amazon S3 (storage), Amazon EBS (persistent disk storage), Amazon RDS (MySQL), Amazon SES (bulk email), Amazon ElastiCache/Redis.
- *Applications (in no particular order):*
 - Veritas Netbackup, HP Data Protector, HP Ignite, Solstice DiskSuite, Duplicity/S3.
 - MySQL, MySQL-client, MySQL-workbench, PostgreSQL.
 - Nagios, Sensu, New Relic, VirtualBox, Vagrant, Chef.
 - Eagle Schematic/Circuit-board Layout, (P)spice, Altera MAX+PLUS, MatLab, Derive.
 - LibreCad, AC3D,
 - OpenOffice, LibreOffice, Microsoft Office.

- *Libraries / API(s):*
 - o Basic TCP/IP Sockets, Shared Memory IPC, MPI, OpenGL/Mesa, CaveLib, MySQLdb, boto, redis, psycopg..
- *Hardware and Platforms:*
 - o Silicon Graphics, Sun Microsystems, Intel/AMD hardware, HP PA/RISC, Apple Hardware.
 - o Tape Libraries and devices: LT0/DLT (manufactured by HP, StorageTek, and others).
- *Specialized Hardware Experience:*
 - o CAVE (Cave.Automatic.Virtual.Environment.), ImmersaDeskI,II,III.
 - o Ascension SpacePad, Ascension PcBird, Ascension Flock of Birds, Polhemus Fastrak.
 - o Wanda (Murray Consulting), Wandbox Interface.
 - o StereoGraphics CrystalEyes Shutter Glasses, VR4 Head Mounted Display.

Notable Skills

- Machine shop skills: Vacuum Forming, MIG Welding, Metal Lathe, Vertical Mill.
- Test Equipment:: Oscilloscope, Function Generator, Frequency Counter, Multimeter, Logic-probe.
- Prototyping: Bread-Boarding, Wire-wrapping, PCB layout/etching, Soldering (Thru-Hole, SMT).
- Micro-Controllers: MicroChip Pic (16f84, 16f873, 16f876, 16f877), AVR ATTiny-85, Arduino.

Publications

- Appelhans, Bradley, Elizabeth Avery-Mamer, Michael Bogucki, Simone French, Imke Janssen, Tamara Olinger, and Lisa Powell. "Leveraging delay discounting for health: can time delays influence food choice?", *Appetite*, 126:16–25, July 2018.
- DeFanti, Tom, Dan Sandin, Maxine Brown, Dave Pape, Josephine Anstey, Mike Bogucki, Greg Dawe, Andy Johnson, Thomas S. Huang. "[Technologies for Virtual Reality/Tele-Immersion Applications: Issues of Research in Image Display and Global Networking](#)", EC/NSF Workshop on Research Frontiers in Virtual Environments and Human-Centered Computing. Chateau de Bonas, France, 1 - 4 June 1999.
- Pape, Dave, Josephine Anstey, Mike Bogucki, Greg Dawe, Tom DeFanti, Andy Johnson, Dan Sandin, "[The ImmersaDesk3 - Experiences With A Flat Panel Display for Virtual Reality](#)", 3rd International Immersive Projection Technology Workshop. Stuttgart, Germany, 10 - 11 May 1999.

Education History

DeVry University, Chicago
University of Illinois, Chicago
Oakton Community College.

BS Computer Engineering, July 2005, GPA 3.9/4.0
Computer Engineering
Pre-Engineering (Core Course Work)