Jason Howe

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Lake Forest Park, WA 98155

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(201) 738-5363

Experience

Assistant Director of Computing Infrastructure
Paul G. Allen School for Computer Science & Engineering, University of Washington (May '21 – Present)
- Manage 9 Direct Reports, a mix of remote and on-site engineers and developers.
    - Oversee an infrastructure of several hundred on-prem servers, off-site, and cloud resources
    - Conduct "post-mortem" meetings and generate action items to prevent like failures in the future.
- Project Lead for Identity and Access Management Modernization project.
    - Defined project goals and milestones.
    - Develop schema updates for central administrative database.
    - Develop an API layer for new front-end tools to manage accounts
    - Drive weekly project meetings.
- Other Modernization Efforts
    - Porting of dozens of custom PHP applications from PHP 5.4 to 8.x
    - Driving upgrade project of 300 servers from Centos 7 to Rocky Linux 9
    - Driving adoption of Configuration Management for systems management
- Consult with researchers, instructors and administrators on technology needs and requirements
    - Build rpms of software packages as requested by instructors for courses.
    - Dockerized over 20 research based applications for ease of continued development and deployment.

Software Engineer
Paul G. Allen School for Computer Science & Engineering, University of Washington (October '14 – May '21)
- Manage 2 Direct Reports and 2 Indirect
    - Foster a collaborative environment where everyone is encouraged to voice ideas and disagree
    - Mentor employees, provide feedback and guidance on projects
    - Provide engineering guidance on best practices and overall team goals
- Notable Programming Projects
    - Password Self-Service system (replaced a paper based process)
    - Guest Account Request and Management system (replaced a nightmare process)
    - Covid-19 Check-In and contact tracing application
    - Courses Landing Pages – Dynamic course info pages (replaced hand-run perl scripts)
    - GitLab Bulk Tools – One click setup for instructors to provision GitLab resources for a course
- Modernization efforts
    - Migrated from custom Apache 2.2 to Centos Apache 2.4 to increase speed of update/patch roll-outs.
    - Migrated from Pubcookie to Shibboleth/SAML SSO to reduce SSO integration times with 3rd parties.
    - Migrated all custom codebases from RCS/CVS/etc to Git to allow enable modern workflows.
    - Built a full test/QA environment for custom applications
    - Implemented Automated Static Analysis
    - Implemented tag-to-release Deployment model
- General Responsibilities
    - Basic Care and Feeding of the entire web infrastructure
    - Manage GitLab for the department, currently at 77k projects.

Enterprise Systems Engineer
Drew University November: '12 – October '14
- Notable Achievements
    - Reduced website load times from four seconds to half a second.
    - Web SSO migration, achieved 100% coverage for 50+ discrete applications
    - Implemented 2FA (Duo Security)
    - Developed "Deploy-O-Matic". A one-click code-deployment system for the webmasters
    - Re-launch of Moodle LMS service, focus on maintainability via managed code deployments and SVN
- General Responsibilities
    - Responsible for entire web infrastructure from Load Balancers to SSO and back-end servers

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Adjunct Lecturer of Computer Science
Drew University (September '13 – May '14)
- Taught <u>Intro to Computer Science</u>
    - Developed Lectures, exercises, assignments and exams
    - Topics covered include: data types, functions, loops, arrays, basic I/O

Sr. Enterprise Applications System Administrator
Princeton University (October '09 – November '12)
- Technical Architect for Enterprise Drupal Service
    - Developed single click provisioning process for new sites across Dev/QA/Prod, with shared storage and Git repositories
- Provide input and make proposals for Web infrastructure improvements (Load Balancing, DR, etc)
- Emergency fix of custom C# mail migration utility, allowing critical migration project to stay on-schedule.
- Develop internal tools as needed for efficiency and accuracy of routine tasks
- Administration and management of existing Web CMS's (SharePoint, Roxen, Drupal)

Technical Consultant
Trayport Inc. (October '08 – October '09)
- Customize, install, and manage electronic trading software for 100+ international clients

Enterprise Applications Administrator
Drew University (May '06 – October '08)
- Technical Architect for Moodle implementation
    - Developed custom integration to automatically provision courses, students and teachers
- Technical lead for University website migration from legacy PHP/Apache/Netware to Ekron.Net CMS
- Evaluated and implemented software and technologies for enterprise-wide solutions
- Worked closely with technical and business groups for projects and implementations
- Managed current systems with a focus on availability and reliability

<u>Technical Expertise</u>
<u>Operating Systems:</u> Linux (Gentoo, CentOS, SUSE), (Open)VMS, some BSD
<u>Languages:</u> PHP, SQL, Bash, Python, BASIC, some C#
<u>Other Technologies</u>: Docker, git, CI/CD pipelines, Apache, SAML, Dovecot, Postfix, Mysql, Postgres, LDAP, DNS

<u>Education</u>
BA Computer Science, Drew University, Madison, NJ – May 2006

<u>Presentations & Exhibits</u>
Atari 800 Productivity Apps: Vintage Computing Festival Pacific North West, March 2019 Seattle, Washington
Alpha Syntauri: The Original Syn: Vintage Computing Festival Pacific North West, February 2018 Seattle, WA
Isolating Legacy Applications with Docker: TTP Americas July 13-17 2015 Provo, Utah
Code and Configuration Management: TTP Americas July 13-17 2015 Provo, Utah
Drupal and Continuous Integration: DrupalCamp NJ, February 1st 2013, Princeton, New Jersey
Enterprise Drupal Architecture: DrupalCamp NJ, February 4th 2012, Princeton, New Jersey
From BlackBoard To Moodle: Fully integrating Moodle with existing Novell Services. 2008 Novell TTP Americas
        Conference, July 14 – 18, 2008, Provo, Utah

<u>Other Positions Held</u>
- Co-lead of systems team and primary mail server admin for Soylentnews.org (2013-2022)
- Pro Bono Infrastructure/Technology Consultant for Independent K-8 school (2008-2011)
- Deployment of Linux Servers and Desktops for local Tech Start-up (2008-2010)
- Student Helpdesk Analyst , Drew University (2004-2006)
- Certified BMW Technician (DiFeo BMW, Tenafly NJ - Top CSI in the shop) (2003)
- Tech Crew at Various Community Theaters / Independent Films (2001-2004)
- Swimming Pool Service Tech (Yes, I was a pool boy) (2000-2002)