

Chad J. Dupuis

✉ chad [at] yyhmsg.net

🌐 www.linkedin.com/in/chadjdupuis/

🐙 github.com/chaddupuis/

/Summary

Over 15 years of highly visible IT roles in higher ed/research environments (MIT, UMN, U Arizona, UC Santa Cruz, +). Over 10 years running a web development/IT Consulting business and providing the full DevOps and web development cycle for a widely used social networking/community website. Well developed interpersonal skills with a tech support history and an ability to discuss and document technical concepts for a wide range of audiences. Solid team player with strong individual problem solving skills and an appetite for continual learning and growth.

/Technologies (Well Rounded Linux Generalist with Python ML/Web and IaC Skills)

🔖 **Programming Languages / Integrations:** Python and associated AI/ML and Web Development/Image Manipulation Libraries, Bash, PHP, Ruby, SQL, Javascript, HTML/CSS, PowerShell, 3rd party REST API integrations (JSON, +). Code samples @ (gist.github.com/chaddupuis).

🔖 **System Orchestration:** Chef, Ansible, Git/Github Actions, Terraform, Jenkins, Apptainer, Docker, Podman, Kubernetes (k3s, tanzu), Slurm.

🔖 **Server / Client Systems / Cloud:** Vsphere/ESXi/Proxmox, nearly all versions of Mac, Windows, Linux/BSD in both client and server roles, small-scale GPU/HPC cluster configurations, Azure/AWS Hybrid cloud configurations (local and hw firewalls – Fortinet, dns, ssh, csr/ssl configuration/automation, +).

🔖 **Web / Software Systems:** Django/Gunicorn, Rails/Passenger, LAMP/LEMP stacks, docker/podman/apptainer containerization, GIT and CI/CD pipelines, PHP frameworks – Processwire, Drupal and Wordpress. The majority of common end user applications on Mac, Windows and Linux (FOSS tools – Libreoffice/Collabora, Nextcloud, Gimp, +). MIT's project Athena associated tools – Kerberos and AFS.

🔖 **Management / Business:** Experience managing direct hires, partners, vendors, remote consultants, city inspectors (construction, health, etc.) and the financial management involved with running a small business.

/Education

- 1993-1995 🔖 **B.S., University of Arizona, Tucson:** Management Information Systems
(Governor's Recognition Award for project which brought large parts of the U of Arizona campus online from departmental lan installs, client hw/sw installs and training)
- 2001-2004 🔖 **M.Ac., Massachusetts College of Pharmacy and Health Sciences, Boston:** Chinese and Japanese Acupuncture (previous licensed provider with 7500+ patient base).

Most Current Employment Details Page 2 - Complete History @ [linkedin.com/in/chadjdupuis/](https://www.linkedin.com/in/chadjdupuis/)

Chad J. Dupuis

✉ chad [at] yyhmsg.net

🌐 <https://www.linkedin.com/in/chadjdupuis/>

🐙 <https://github.com/chaddupuis/>

/Currently

📖 Linux Systems Engineer - U of Minnesota Health Sciences, Minneapolis (12/2020 - Present):

- With a small team, function as a Linux generalist automating and providing upper tier systems operations for 300+ Linux machines (physical and VSphere/virtual machines - RHEL/Ubuntu) along with small-scale HPC gpu/ml facilities in a HIPAA compliant environment. Primary tools are Chef, Ansible, Jenkins, Bash and Python. Due to PHI data, heavy utilization of reverse and forward proxies and a host of security and auditing measures.
- Support research computing development and provide documentation for a variety of bioinformatics/nlp/etl processing pipelines – GPU cluster installation and management – Slurm, Apptainer/Docker, Python package management, and a variety of gpu/hpc related libraries. Linux systems administration, ai/ml/web systems, tooling and associated automation and delivery pipelines.
- Primary Contributions: increasing our use of containerization for legacy and newly produced applications, automation whenever possible, large outlay of ssl cert automation, ongoing POC's of Kubernetes – K3s and Tanzu and helping to grow our HPC related facilities.

/Previously

📖 Owner, Developer & Practitioner - Yin Yang House, Chattanooga (2006-2020):

- All programming, writing, design and systems administration related to the Yin Yang House network of sites (~400k views/mo). Custom built EMR system (python) with JSON/API integrations to 3rd party tools (scheduling, accounting, theory and inventory systems). Social media and SEO management. Consulting and development for other health related businesses including large projects involving in-house and off-shore developers.
- Manage all aspects of employee hiring, training, and development including facilities management, architecting renovations, city planning and code adherence. Principle practitioner providing over 2000 treatments/year, voted locally “Best of the best” in acupuncture multiple years in a row.

📖 Consultant III - Massachusetts Institute of Technology, Cambridge (2001-2006 and 1996-1997):

- Provided a range of high visibility technical projects from planning with stakeholders through to completion, documentation and support. Examples include the development of a 3d visualization computing facility and a NSF funded teaching with technology program both utilizing customized applications, Windows domain management and automated deployments, as well as a small-scale commodity HPC cluster project.
- Involved with automation development and physical management of over 300 Windows, Mac, Linux and Solaris machines in public computing clusters and academic departments.
- Direct faculty/researcher support and documentation roles for my projects, research/analysis tools, and upper tier support for the heavily Unix based MIT Athena environment.

Similar Roles at U of Arizona, UC Santa Cruz, U San Francisco, Michigan State U – Details @ LinkedIn