

# Matthew R. Hanlon

122 North Field Street  
Round Rock, TX 78681 U.S.A.

Phone: 251-209-8101

email: [mrhanlon@mrhanlon.com](mailto:mrhanlon@mrhanlon.com)

URL: <http://mrhanlon.com>

## Current position

*Manager, Web and Mobile Applications*  
Texas Advanced Computing Center  
The University of Texas at Austin

## Areas of specialization

Asynchronous Programming • Web Applications • User Interfaces • User Experience  
JavaScript • Java • Python • Spring • Hibernate • Angular.js • Node.js • Django

## Software Work Experience

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|--------------|--|
| 2010-present | Texas Advanced Computing Center, The University of Texas at Austin<br>Manage a group of eight developers working across several projects. Mentor graduate and undergraduate interns working on various projects. Lead developer and architect for multiple projects. Implemented environment management and build automation for projects across multiple languages, technologies, and stacks. |
| 2007-2010    | Alliance Communications Management, Mobile, Alabama<br>Maintenance and feature development for a PostgreSQL database application fronted by a Java Swing desktop application for internal use by order management, billing, and technical support specialists. Developed a new web front end for said PostgreSQL database in Wicket, Spring, Hibernate, and Jasper Reports for client use.     |

## Education

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|------|--|
| 2009 | MS in Computer Science, The University of South Alabama, Mobile, Alabama |
| 2003 | BS in Mathematics, Spring Hill College, Mobile, Alabama                  |

### HONORS, & AWARDS

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|-----------|---|
| 2010-2011 | Outstanding Master's Thesis, University of South Alabama  |
| 2008      | Outstanding Graduate Student, University of South Alabama |
| 2008      | CIS Graduate Fellowship, University of South Alabama      |
| 2003      | Presidents Honors in Mathematics, Spring Hill College     |
| 2003      | Hutchinson Award, Philosophy, Spring Hill College         |

## Selected publications & talks

### JOURNAL ARTICLES

- 2015 R. Dooley, M. Hanlon (2015), “Recipes 2.0: Building for Today and Tomorrow”. [Special issue] *Concurrency and Computation: Practice and Experience*. doi:10.1002/cpe.3285.
- 2014 M. Hanlon, W. Smith, S. Mock (2014), “Providing resource information to users of a national computing center”. [Special issue] *Concurrency and Computation: Practice and Experience*. doi:10.1002/cpe.3233.

### CONFERENCE PAPERS

- 2014 M. Hanlon, M. Vaughn, et al., “The Arabidopsis Information Portal: An Application Platform for Data Discovery”. Proceedings of the 9th Gateway Computing Environments Workshop. doi:10.1109/GCE.2014.10.
- 2011 M. Hanlon, et al., “Benefits of NoSQL databases for portals & science gateways”. Proceedings of the 2011 TeraGrid Conference: Extreme Digital Discovery, 2011. doi:10.1145/2016741.2016780
- 2010 M.R. Hanlon, et al., “My-Plant.org: A phylogenetically structured social network”. Gateway Computing Environments Workshop (GCE), 2010. doi:10.1109/GCE.2010.5676118

### PRESENTATIONS

- 2014 “Discovering and using Araport Data APIs in Araport Science Apps”. The First Araport Developers Conference, TACC, Austin, TX, USA. Slides.
- 2014 “Project Management and Automation: Using Maven and Grunt to accelerate development”. Software Engineering Assembly Conference, UCAR, Boulder, CO, USA. Slides. Demo code.
- 2014 “Federated Authentication in a Campus System”. Liferay .EDU User Group. Webcast. Slides.
- 2013 “Using Liferay as a platform for Computational Science”. Liferay North American Symposium, San Francisco, USA.
- 2013 “Introduction to Science Gateways Workshop”. Elizabeth City State University, North Carolina, USA. Demo code.

## Open Source Software Contributions

Less Than Slash, <https://atom.io/packages/less-than-slash>  
CommnQ, <https://www.npmjs.org/package/commnq>  
Arabidopsis Information Portal, <https://github.com/Arabidopsis-Information-Portal>  
Foundation Backbone/Gateway DNA, <https://bitbucket.org/taccaci/foundation-backbone>

Github, <https://github.com/mrhanlon>  
Bitbucket, <https://bitbucket.org/mrhanlon>  
Docker, <https://hub.docker.com/u/mrhanlon/>

## Volunteering

Austin Give Camp 2014 <http://austingivecamp.org>, Part of a hackathon team to develop an application (Python, Flask, Angular.js) for The Ghisallo Foundation’s Cycle Academy project.