Dr. Patrick S. Rhomberg

Software Engineer

Doctor of Philosophy in Applied Mathematics and Computational Sciences

Master of Computer Science

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Developer Experience

Software Engineer Jan 2017 – `NOW=$(date +"%b %Y")`
Pivotal Software, Inc.

Highlights:

Developed and maintained continuous-integration infrastructure, including migration of that infrastructure from AWS to GCP

Expanded scope and improved granularity of security permissions for all cluster operations

Redesigned and rewrote GemFire's `gradle` build to respect modularity, with focus on build parallelization and incrementalization, clean delineation of code ownership and testing boundaries between supporting projects, and maintaining artifact expectation for downstream projects.

A previous life as an academic

Teaching Assistant Sept 2014 – May 2016
The University of Iowa, Department of Computer Science

Adjunct Professor Sept 2013 – Dec 2013
Cornell College, Department of Mathematics and Statistics

Assistant in Instruction Sept 2013 – Dec 2013
The University of Iowa, Department of Mathematics

Teaching Assistant Aug 2007 – May 2013
The University of Iowa, Department of Mathematics

Complete teaching history available at: http://home.patrhom.com/resources/resume/teaching.pdf

My current academic interests in discrete graph modeling as applied to player ranking and matchmaking.

Other notable work

I am the author of /u/roll_one_for_me, a table-rolling Reddit bot for `/r/DnDBehindTheScreen` and related subreddits. The bot is GCP-hosted and deployed via Docker, with source viewable on GitHub.

My doctoral thesis, *On the Scalable Parallelization of Network Diffusion Models*, is available at the University of Iowa's Institutional Repository: https://ir.uiowa.edu/etd/5831/

Developer Details

Languages Known

Fluent: Java JDK 8, Python3

Conversational: Java JDK 11 / Jigsaw modules, Groovy, Python2

Out of practice but happy to relearn: C, C++, Perl, Matlab, Gnuplot

Tool Proficiencies

With expertise: `git`, `bash`, `emacs`, the Gradle build tool, IntelliJ and PyCharm

Proficient: Docker (so hot right now), AWS and GCP, LaTeX, Concourse continuous integration, Jinja2

Half proficient: `vim`

Strong opinions, held

A problem does not need to become costly before its solution has value.

A product withers on the vine when its build system is broken.
A responsible developer know how it works.

Tests form the contract of permissible product behavior.
Product confidence necessitates test confidence.

`Perfect` is certainly the enemy `good`,
but `good enough` will be the death of them both.

A responsible developer seeks out the full usefulness of their tools.
Your IDE will help you if you learn how to ask it.