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

Pivotal Software, Inc.

Jan 2017 - NOW=\$(date + "%b %Y")

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 The University of Iowa, Department of Computer Science	Sept 2014 – May 2016
Adjunct Professor Cornell College, Department of Mathematics and Statistics	Sept 2013 – Dec 2013
Assistant in Instruction The University of Iowa, Department of Mathematics	Sept 2013 – Dec 2013
Teaching Assistant The University of Iowa. Department of Mathematics	Aug 2007 – May 2013

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 important projects

I wrote a Reddit bot. 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 available on GitHub.

I have had an abundance of education. 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/

I am a member of Apache Geode's Project Management Committee. I am a strong believer in the open source and am very happy that I have been able to contribute to the Apache Software Foundation.

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 for now 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.