

Dr. Patrick S. Rhomberg

Software Engineer

Doctor of Philosophy in Applied Mathematics and
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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](https://www.reddit.com/user/roll_one_for_me), a table-rolling Reddit bot for [/r/DnDBehindTheScreen](https://www.reddit.com/r/DnDBehindTheScreen) and related subreddits. The bot is GCP-hosted and deployed via Docker, with source available [on GitHub](https://github.com/patrhom/roll_one_for_me).

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/>

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, L^AT_EX, 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.