

# keyan pishdadian

Phone: (774) 273-3047  
Email: [kpishdadian@gmail.com](mailto:kpishdadian@gmail.com)  
LinkedIn: [linkedin.com/in/keyanp](https://www.linkedin.com/in/keyanp)

Website: [keyanp.com](http://keyanp.com)  
GitHub: [github.com/keyan](https://github.com/keyan)

## EXPERIENCE

### Teachers Pay Teachers, Software Engineer; New York, NY Sep 2016 – Present

- ◇ Teachers Pay Teachers is a marketplace for teachers to buy and sell teacher created learning resources, think “Etsy for Teachers”
- ◇ Backend system component development *Elixir/Phoenix*
  - Architected and developed a distributed asynchronous task processor backed by Redis
  - Redesigned feature toggle updates, decreasing update time from ~10mins to <30secs
- ◇ Created a continuous integration and deployment pipeline for containers deployed to Kubernetes *Groovy*
- ◇ Wrote an internal web application to centralize the deployment process for all applications *Elixir*
- ◇ Automated infrastructure management *Chef, Terraform*

### Venmo, Software Engineer; New York, NY May 2015 – Aug 2016

- ◇ Worked on the Platform team developing a backend serving millions of users *Python/Django*
  - Redesigned payments news feed to improve performance and allow for future feature development
  - Improved system reliability and scalability by optimizing MySQL, Mongo, and Cassandra database access
- ◇ Improved the state of developer tooling and increased development velocity *Python, Packer, Bash*
  - Owned upkeep and release of development virtual machine
  - Eliminated most test state issues by replacing legacy static test fixtures with dynamic data creation
- ◇ Improved monitoring/logging/alerting systems and managed infrastructure *Puppet*
- ◇ Developed a deep fondness for emojis

### Recurse Center, Recurser; New York, NY Jan 2015 – Mar 2015

- ◇ A self described “retreat for programmers” ([recurse.com](http://recurse.com)) where I talked about, read about, and programmed computers. Also played a lot of chess.

### University of Vermont Medical Center, Research Assistant; Burlington, VT May 2013 – Dec 2015

- ◇ Studied genetic regulation of sporulation in the bacterium *Clostridium difficile*

## OPEN SOURCE

- ◇ Flask developer tool for source code manipulation *github.com/pallets/flask-ext-migrate*
- ◇ Co-maintainer of:
  - Elixir job processing system *github.com/edgurgel/verk*
  - Command-line tool for rapid large-scale refactoring *github.com/facebook/codemod*
  - Python web framework *github.com/pallets/flask*

## EDUCATION

### B.Sc. Microbiology, University of Vermont; Burlington, VT 2013

## PUBLICATIONS

**Pishdadian, K.**, Fimlaid, K.A., & Shen, A., (2015) SpoIIID-mediated regulation of  $\sigma^K$  function during *Clostridium difficile* sporulation. *Molecular Microbiology*, 95:189–208.

Shen, A., Fimlaid, K.A., & **Pishdadian, K.**, (2016) Inducing and Quantifying *Clostridium difficile* Spore Formation. *Methods in Molecular Biology*, 1476:129-42.

Ribis, J.W., Ravichandran, P., Putnam, E.E., **Pishdadian, K.**, & Shen, A. (2017) The Conserved Spore Coat Protein SpoVM Is Largely Dispensable in *Clostridium difficile* Spore Formation. *mSphere*, e00315-17.