

# KEYAN PISHDADIAN

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## EXPERIENCE

### Lyft, Software Engineer; Seattle, WA

March 2018 – Present

- ◊ Working on a small and diverse team developing alternative (to cars) transportation options and multimodal journey planning within Lyft
- ◊ Shipped transit journey planning, appearing alongside car options in several large metro areas *Python*
- ◊ Designed, developed, and shipped a feature allowing users to perform geospatial search and access realtime nearby transit information. This feature has been highlighted in Wired and Bloomberg. *Python*
- ◊ One of three engineers developing a novel routing engine which can compute multimodal journeys in transit dense regions in <50ms. I am personally responsible for developing components to manage transportation network data structures and realtime updates with concurrent access. Our work has resulted in a pending patent. *Go*

### Teachers Pay Teachers, Software Engineer; New York, NY

Sep 2016 – Feb 2018

- ◊ Marketplace for teachers to buy and sell teaching materials
- ◊ 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*
  - 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*) 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 2014

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

## EDUCATION

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

2013

## PUBLICATIONS

Pishdadian, K., Fimlaid, K.A., & Shen, A., (2015) SpoIIB-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.