

ANSHUMAN PATNAIK

Software Engineer

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EXPERIENCE

Infrastructure Engineer

Wish

Jan 2016 – Apr 2016, Aug 2016 - Dec 2016 San Francisco, CA

- Established a framework to allow developers to have on-demand migrations to denormalize collections.
- Designed and built a framework to execute tools, commands and monitor the entire MongoDB cluster.
- Built automation to launch a production ready sharded MongoDB cluster in AWS in 5 minutes.
- Facilitated several cluster wide MongoDB migrations using Chef and in-house orchestration scripts.
- Developed a log parsing tool to detect bad queries ad-hoc.
- Optimized existing linters to statically analyze queries and warn/hint users about missing indexes and bad queries.

Database Engineer

Rubicon Project

May 2015 – Aug 2015 Los Angeles, CA

- Maintained and optimized production MySQL database clusters through tasks such as query optimization, load balancing, and database backups.
- Designed and built a dashboard using a ruby based framework to display critical system health/task metrics.

IT Specialist

TD Bank

Sep 2014 – Dec 2014 Toronto, ON

- Automated and integrated various third party solutions into the first private IAAS and PAAS offering at TD.

IT Systems Administrator

TD Bank

Jan 2014 – Dec 2014 Toronto, ON

- Designed, implemented and managed two Django Web Portals for automating infrastructure tools.

PROJECTS

WaterBud

Prototyped an inline water sensor solution with Raspberry Pi, tornado, flask, and python capturing realtime and detailed breakdown of water use in a household.

Monocle

Real-time MongoDB cluster health visualizer built using d3 and Flask.

SKILLS

Programming

Python BASH Ruby C++
Matlab Git Latex

Databases

MongoDB MySQL

Infrastructure

Chef AWS - EC2/S3/CloudFormation
SaltStack OpenStack Networking

Web

Tornado Flask Django
HTML/CSS/Javascript Javascript
jQuery

EDUCATION

Systems Design Engineering

University of Waterloo

Sept 2013 – Current

- Rank 11 Last 2 academic Terms
- Cumulative average of 85.06
- Dean's list Honors Summer 2014 - 90.5 average

ACADEMIC EXPERIENCE

Research Assistant

University of Waterloo

Jan 2015 – Mar 2015

- Analyzed the short and long term stability of macroeconomic systems using dynamic physical models.

INTERESTS

Distributed Systems Economics