

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 Rasperry 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