ANSHUMAN PATNAIK

Software Engineer

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EXPERIENCE

Infrastructure Engineer
Wish (ContextLogic Inc.)
📅 Jan 2016 – Apr 2016, Aug 2016 - Dec 2016   📍 San Francisco, CA

- Established a framework to allow developers to easily denormalize collections through timed migrations.
- 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 5 mins using AWS, Chef and Python.
- Validated, automated and executed two major upgrades on the cluster leveraging benchmarking tools and in-house orchestration tools in conjuction with Chef.
- Improved over existing monitoring tools through paralleization and higher fault tolerance.
- Developed a log parsing tool to analyze mongodb logs 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 backup automation.
- Designed and built a dashboard using a ruby based framework to display critical system health/task metrics.

Research Assistant
University of Waterloo
📅 Jan 2015 – Mar 2015   📍 Waterloo, ON

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

PROJECTS

WaterBud

- A proposed solution to curb household water waste by providing detailed breakdown of water use in a household.
- Designed and built a MVP using Rasperry Pi, tornado, flask, and python.

Monocle

- A real-time MongoDB cluster health visualizer built using d3.js and Flask.

SKILLS

Progamming

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

- Ranked 11 last 2 academic terms
- Cumulative average of 85.06

AWARDS

🏆 **Dean's List Honors**
Awared to top 10% of students in class based on academic merit, ranked 4th in Summer 2014

🎓 **Engineering Entrance Scholarship**
Awarded to students based on academic achievement

🎓 **President's Scholarship of Distinction**
Awarded to Students with entrance average greater than 95%

INTERESTS

Distributed Systems   Economics