

ANSHUMAN PATNAIK

New Grad & Aspiring Software Engineer

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EXPERIENCE

Technical Project Manager/Software Engineer Intern

A9.com - Advertising Technology

📅 Summer 2017

📍 Palo Alto, CA

- Investigated potential sources of errors in forecasting for an advertising program through data analysis and consultation with relevant stakeholders.
- Developed a roadmap and established product requirements and design for the above forecasting product.
- Established an ETL pipeline to aggregate data from multiple sources to report on advertising supply metrics.
- Created a dashboard using Angular and Spark to surface insights about a new advertising delivery pattern.

Infrastructure Engineer

Wish (ContextLogic Inc.)

📅 Winter and Fall 2016

📍 San Francisco, CA

- Established a framework to allow developers to easily denormalize collections through timed migrations leveraging an experiment framework.
- Designed and built a framework to execute tools, commands and monitor the entire MongoDB cluster.
- Created a tool to launch a production-ready sharded MongoDB cluster in 5 minutes using AWS, Chef and Python.
- Architected and facilitated a migration of a portion of the existing database cluster to AWS, reducing main cluster load by 30%.
- Validated, automated, and executed two major upgrades on the MongoDB cluster leveraging benchmarking tools and in-house orchestration tools, in conjunction with Chef.
- Improved the robustness of existing infrastructure monitoring tools through increased parallelization and higher fault tolerance.
- Developed a log parsing tool for database logs to analyze and detect bad queries ad-hoc surfacing metrics such as lock percentage.

Database Engineer

Rubicon Project

📅 Summer 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 and current task metrics.

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 Raspberry Pi, Tornado, Flask, and Python.

SKILLS

Programming

Python BASH Ruby MATLAB
Git Scala

Databases

MongoDB MySQL Redshift

Infrastructure

Chef AWS - EC2/S3/CloudFormation
SaltStack OpenStack Networking

Web

Tornado Flask Django
HTML/CSS/Javascript jQuery

ACADEMIC EXPERIENCE

Research Assistant

University of Waterloo

📅 Winter 2015

📍 Waterloo, ON

- Analyzed the short and long term stability of macroeconomic systems by comparing them to existing dynamic physics models.

EDUCATION

Systems Design Engineering

University of Waterloo

📅 Sept 2013 – April 2018 (Expected)

- Ranked 6/62 last academic term.
- Cumulative average of 85% - 3.9/4.0 GPA
- Dean's List Honors in Spring 2014 Term.

INTERESTS

Distributed Systems Economics
Machine Intelligence Ed-Tech
Databases Product Management