Tuan Anh Hoang-Vu

New York, NY, USA | hvtuananh@gmail.com

EXPERIENCES

Software Reliability Engineer at Two Sigma Investments, LP.

Aug 2017 - Present

New York, NY

- Developed a companywide observability suite (Prometheus/Grafana) that runs completely on Kubernetes with persistent storage.
- Designed and maintained a set of pipelines to collect APM, metrics and traces to a vendor product.
- Maintained and further improved a logging system which collects logs using Fluent Bit, enrichs with metadata and forwards to a vendor system.
- Designed and implemented a solution for running Logstash on Kubernetes.
- Drove the migrations of multiple deprecated metrics solutions to the current strategic metrics platforms.
- Offered multiple open source software as internal services, including ELK, Zookeeper, Kafka and others.
- Shepherded the adoption of Ansible as configuration management system for critical services within the company.

Software Engineering Intern at Uber Technologies Inc.

May 2016 - Aug 2016

San Francisco, CA

- Investigated and created PoC for different strategies to handle QoS at application and service levels.
- Developed a program to collect metrics from Mesos/Aurora and Docker services.
- Implemented a feature in Mesos v1 API to allow querying with metric types (MESOS-5731).

Research Assistant at New York University School of Engineering

Sep 2012 - Jan 2018

- Brooklyn, NY
 - Developed an efficient spatio-temporal textual index that handles spatial, temporal and textual components uniformly, archives high efficiency both in space usage and query evaluation.
 - Developed temporal entity matching algorithms to integrate various urban datasets to discover underlying owners and ownership patterns.
 - Collected news across top news websites in the US using *focused crawler* and associate news topics with tweets via domain adaptation.

Software Engineer at Cazoodle Inc.

Feb 2009 - Jun 2012

Hanoi, Vietnam

- Developed a comprehensive software suite for creating, testing and managing visual web crawler.
- Designed and deployed a crawler scheduling system with 200+ clients that were responsible for on-demand and scheduled web crawling.
- Implemented a lightweight-parsing framework to extract product information from web pages on-the-fly.
- Developed a Firefox add-on (Shopping Caddy) that fetches offers, reviews and price history for a given product.
- Extracted and aggregated opinions from users' reviews and mapped into products to enable searching for products by opinions.

TECHNICAL SKILLS

Python (basic knowledge of C/C++, Java, PHP), Linux, bash, git, nginx, ELK, Prometheus, Grafana, Ansible, Flask.

EDUCATION

Ph.D. in Computer Science

Jan 2018

New York University Tandon School of Engineering, Brooklyn, NY Thesis: Spatio-Temporal Keyword Index For Interactive Data Exploration 2nd place in ACM SIGMOD 2014 Programming Contest

B.S. in Computer Science

Jun 2010

Hanoi University of Science and Technology, Hanoi, Vietnam