Kshitij Parajuli

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EXPERIENCE

Senior Software Engineer, Data Science Platform   Mar 2019 - Present
TripAdvisor | Boston, MA

- Designed and implemented platform to deliver real-time machine learning model by utilizing **Kubernetes**, **Docker** and **Jenkins** for CI and CD allowing models to be deployed to production rapidly, with ease, and with three 9s of uptime. The ease and reliability increased usage of real-time ML models and models productized in the framework generated millions of dollars of incremental revenue.
- Maintained and improved TripAdvisor Experience's **data science platform** built on top of **scikit-learn**, docker, and k8s which supports all machine learning frameworks. This framework drastically sped up the time it takes for data scientists to build and engineers to productionalize online and offline machine learning models.

Software Engineer II   Mar 2017 - Mar 2019
TripAdvisor | Boston, MA

- Productized and improved machine learning models written in Python that ranged everywhere from feature stores that other models use, to batch prediction jobs, to real-time services that the frontend can call using Docker, Kubernetes, **Prometheus**, **Grafana**, Jenkins etc.
- Built, maintained, and architected the data science platform, which includes tools and frameworks, to help the data science team build machine learning models.

Software Engineer   July 2015 - Mar 2017
TripAdvisor | Boston, MA

- Planned and **tech led** migration of FlipKey.com into a centralized, themeable platform which deprecated more than a dozen systems and technologies.
- Planned and executed migration of caching technology from **memcache** to **Redis** to allow for better monitoring, replication and more flexibility
- Worked on Centralized Login feature to allow TripAdvisor users to log into FlipKey while mitigating security concerns over user's PII and credit card data.

Software Engineer Intern and Co-op   Jul 2010 - May 2015
Oracle (formerly Tekelec) | Morrisville, NC

- Architected and implemented APIs and internal tools for development workflow that integrated with revision control systems using languages like Perl, PHP, MongoDB and JavaScript while maintaining different web tools.
- Analyzed test specifications and created automated testing scripts to perform testing on high performing database systems.
- Developed and maintained a test framework and a web application to perform functional testing and generate reports. This was built in PHP/Zend Framework and the work also involved creating numerous tools to interact with it.

EDUCATION

North Carolina State University | Bachelor of Science in Computer Science   May 2015
- GPA: 3.75/4.0
- Computer Science Ambassador at NCSU (2014), Treasurer of Nepalese Student Association

SKILLS

Python, Java, PHP, HTML/CSS, JavaScript, SQL, Linux, Kubernetes, Docker, BigQuery, Android