Xing Du

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EXPERIENCES

Salesforce.com Inc (NASDAQ: CRM), Cambridge, MA   **Jun 2019 - present**

Software Engineer Intern at Commerce Cloud Einstein

- Work at the infrastructure team that builds and operates large-scale recommendation system, which supports over 700 business and over 2000 websites, using **Python**, **Node.js, Cassandra, AWS, Terraform, Docker** and **Kubernetes**.
- Developed a tool (MS) that enables data scientist to test recommendation strategies directly with real-time recommendation service, by creating or updating containerized data science models onto AWS ECR. Implemented server-side to handle HTTP request from realtime service to MS containers using Node.js and **express.** Deployed model containers on AWS EKS cluster using Terraform, Kubernetes and **Helm**: created deployment and service for model containers managed in pods; configured routing to the corresponding service with ingress controller; applied network policy to prevent unwanted traffic from model container pods into database. Scheduled machine learning jobs in time run manner which send model output to s3 files and read by MS containers.
- Created a new strategy to bundle EC2 target groups that speed up code deployment for realtime recommendation web service by more than 50%; Refactored existing Infrastructure as Code by migrating bash script to Terraform.

Kuebix, Maynard, MA, USA   **Jun 2018 - Dec. 2018**

Software Developer Intern

- Built cloud-based **SaaS** Application using Salesforce (**VisualForce, Apex**) and **AngularJS** following **Agile** methodology and branch-based Git workflows.
- Developed responsive UI using Bootstrap, **jQuery** and and Javascript Remoting for Apex Controller, connect frontend with data model by **two-way data-binding** using **KnockoutJS**.
- Optimized backend performance by refactoring database queries to overcome governor limits; Reduced home page loading time by identification and pruning of slow query using database index.

EDUCATION

Northeastern University, Boston, MA, USA   **Sep 2017 - Dec 2019**

M.S. in Computer Science GPA 3.67
Courses: Algorithm, Computer System, Web Development, Database, Parallel Data Processing, Programming Language

Peking University, Beijing, China   **Sept 2009 - July 2013**

B.S. in Biological Science GPA 3.42

PROJECTS

Around**: a Geo-index based social network**

- Built a scalable web service in **Go** to handle posts and deployed to **Google Cloud** (GAE flex) for better scaling
- Utilized **ElasticSearch** (GCE) to provide geo-location based search functions such that users can search nearby posts within a distance (e.g. 200km)
- Used Google **Dataflow** to implement a daily dump of posts to **BigQuery** table for offline analysis.
- Aggregated the data at the post level and user level to improve the keyword spam detection (BigQuery)

TECHNICAL SKILLS

Programming Language: Java, Javascript, Scala, Apex, VisualForce, C, Racket, Go
Library / Frameworks: Terraform, Docker, Kubernetes, Spring Boot, Node.js, express, jQuery, KnockoutJS, Hadoop, Spark
Tools / Database: JIRA, Git, Tomcat, Maven, MySQL, PostgreSQL, Redis, Cassandra, MongoDB
Cloud Platform: AWS (EC2, EMR, S3, EKS, ECR), GCP (GCE, GAE, BigTable, BigQuery)