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 build and operate large-scale recommendation system that supports over 700 business and over 2000 websites, using **Node.js, Redis, Cassandra, AWS, Terraform, Docker** and **Kubernetes**.
- Developed a tool 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 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 corresponding service with ingress controller; applied network policy to prevent unwanted traffic from model container pods into database containing user data
- Created 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, Big Data, 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)