

Xing Du

Email: du.xing1@husky.neu.edu; LinkedIn: [shorturl.at/btIJ8](https://www.linkedin.com/in/shorturl.at/btIJ8); Github: <https://github.com/chinadd>

EXPERIENCES

Salesforce.com Inc, Cambridge, MA

Jun. 2019 - Aug. 2019

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 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 model containers
- 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.
- 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

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

Sep. 2009 - Jul. 2013

B.S. in Biological Science GPA 3.42

PROJECTS

Around: a Geo-index based social network

Jun. 2019 - Aug. 2019

- 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)