Xing Liu

Email: xingliu14@gmail.com

Website: https://xingliu14.github.io/
Mobile: +1-346-221-9933

EDUCATION

- **Rice University** — Houston, TX
  Master of Computer Science — *Aug. 2017 – Dec. 2018*
- **Tsinghua University** — Beijing, China
  Bachelor of Engineering in Microelectronics — *Aug. 2012 – July 2016*

PROFESSIONAL EXPERIENCE

- **Verizon Media/Yahoo!** — Sunnyvale, CA
  Software Engineer — *Mar. 2019 - present*
  - Comm Channel Reputation Datasets: Implemented a data mining pipeline to generate reputation scores for 1.8B comm channels (email addresses/phone numbers), aggregated comm channel reputation data to produce comm channel groups reputation (email domains/phone carriers), built heuristics set and machine learning model for the pipeline
  - Baltar: Improved and maintained a classifier on Verizon Media accounts platform to identify malicious users using machine learning models with Hive, PySpark, Oozie and HDFS
  - Developed dashboards to display realtime performance metrics for each model and heuristic, enable engineers to monitor and compare differences in performance easily

- **Oath/Yahoo!** — Sunnyvale, CA
  Software Engineering Intern — *May 2018 - Oct. 2018*
  - MTA-STS: Implemented RFC 'SMTP MTA Strict Transport Security' with Java, integrated the library into Yahoo! mail outbound client and made Yahoo! the second mail service provider to support this mail security protocol
  - Developed alternative dependency service for JIRA with Go, AWS, Ansible and DynamoDB, which significantly improved team pipeline's stability and speed

- **Douban** — Beijing, China
  Software Engineering Intern — *July 2016 - Jan. 2017*
  - Improved the recommender system of 'DoubanFM', applied Factorization Machine model to 200 millions records dataset so as to achieve better performance than previously used model: reduced Root-Mean-Square of prediction from 1.62 to 1.37 (15.4%)

PROJECTS

- **Social Network Web Application**: Built frontend with Angular and webpack, built backend with Node.js and using MongoDB as database, used Fetch API to send REST request to Express/Node.js backend server, used Cloudinary to handle image uploading and PassportJS for OAuth authentication
- **Reliable Transfer Protocol and Intra Domain Routing**: Designed and wrote a reliable file transfer protocol based on UDP with C, implemented link state routing protocol and poison reverse variant of distance vector protocol in C++
- **Robotics System**: Developed image recognition algorithm for assembly high-density microwires

SKILLS

- **Programming**: Java, Go, Python, Unix Shell, SQL, C++, JavaScript, HTML/CSS, Typescript
- **Frameworks and Tools**: Hive, PySpark, Oozie, Angular, Git, AWS