DAVID GAO

72 Barnstone Drive, Markham, ON 🙃

647-937-6881

davidxsgao@gmail.com

https:/www.linkedin.com/in/davidxsgao in

https://github.com/davidxsgao ##

SKILLS

Programming Languages Go, Java, Python, Perl, Bash **Frontend Frameworks/Libraries** React, Vue.js, Node.js, Angular

Databases MongoDB, Aerospike, InfluxDB, MySQL, PostgreSQL DevOps Docker, Kubernetes, Terraform, Ansible, TICK Stack

WORK EXPERIENCE

Full Stack Engineer | Paymentus Corp.

November 2020 – Present

- Constructed a React app to display hundreds of rows of invoice data in a report format for an international business under a strict deadline
- Composed Node.js scripts to aggregate invoice data from MongoDB and deliver the output to clients
- Implemented Node.js scripts to store output files to AWS S3 and MinIO using Kafka for redundancy
- Created Terraform plans to automate Kubernetes pod generation when the cron jobs are scheduled
- Refactored public facing React components to be generic and AODA compliant for improved reusability

Software Engineer | Index Exchange Inc.

May 2019 – November 2020

- Redesigned a legacy UI, that displays hundreds of thousands of complex data structures, to improve scalability and the user experience using Angular 6 on the front-end, and Node.js for the RESTful APIs
- Implemented and negotiated a solution, with a third-party user identification provider, to encrypt their cookie data using RSA-OAEP and have the data decrypted in real time with a **Go** service
- Developed a caching project to store a service's response saving network calls and computational latency on subsequent requests
- Lead a team to create a Go service, using **gRPC** and taking advantage of **Aerospike**'s cross data replication capabilities, enriching all streams of data resulting in higher value bids
- Won second place in Hackathon by tweaking existing services to display PSAs on unsold ad spaces
- Introduced the rotational "Operational Excellence" role company-wide so engineers are always mindful of monitoring and alerting when developing features

PROJECTS

IXAccomplishments

March 2018 – April 2018

- Sole developer of the React web application to give and receive recognitions on a day to day basis
- Utilized Bootstrap, and SASS to implement a responsive design used for TVs, desktops and mobile
- Dockerized the application to lay the foundation for continuous integration and continuous delivery
- Backend, written in Node.js, retrieves user profiles, acknowledgments and rewards from MongoDB

TaskUp

November 2014 - May 2015

- Co-developed the android application in **Java**, allowing communities to upload tasks in order to increase volunteer opportunities and hours in the neighborhood
- Taskup received over 100 downloads and 20 reviews a month after launch on the Google Play Store

EDUCATION

University of Toronto

September 2015 – April 2019

• Honours Bachelor of Science - Software Engineering Stream