ARUN RANGANATHAN

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SUMMARY

- · Experience building and maintaining robust distributed scalable systems.
- · C++ (CMake), Python, Java (Android), JavaScript, SQL, Golang, C, NodeJS
- · Node.js, Django, Angular 2, Angular JS, CloudSQL, PostgreSQL, MySQL, RabbitMQ, Redis, Kubernetes, OpenShift, Celery, gRPC, TensorRT, TensorFlow, OpenVINO, OpenCV, NumPy, Java, Protocol Buffers

EXPERIENCE

Paravision April 2019 – Present

Computer Vision Engineer

Toronto, ON

- · Decreased latency by 19% (P95) and improved throughput by 150% (P95) by re-architecting streaming app with asynchronous networking and parallel computing principles.
- · Quadrupled ETL throughput (2MM to 8MM) by scaling with Kubernetes speeding up model training time.
- · Constructed facial recognition gRPC server with clients in C#, NodeJS, Python3 and C++.
- · Built liveness C++ SDK on Windows and Linux using OpenCV, Tensorflow, TensorRT and OpenVINO.

The League
Backend Developer

 $May\ 2018-August\ 2018$

- San Francisco, CA
- · Develop core micro-services that replaced parts of monolithic backend deployed in GCP Kubernetes.
- \cdot Reduce number of calls to Postgre SQL by implementing trigger based caching.
- \cdot Create unit and E2E testing to support integration of micro-services.

The League
Android Engineer

January 2018 – April 2018

San Francisco, CA

- · Rewrite the messaging platform. Optimize how messages are received, stored and managed.
- · Increase user activity by developing custom photo-messaging capabilities in chats and optimizing the loading and uploading of photo-messages.

Aspire Financial Technologies

Augest 2016 – April 2017

Backend Developer

Toronto, ON

- · Develop query-able RESTful API endpoints on Django.
- · Engineer aggregating algorithms that compile into complex financial math on PostgreSQL and optimized it to run in real time.

OPEN SOURCE / PROJECTS

Redis In-memory Database

· Show threading configuration in INFO output #7446 & #1353

CockroachDB Distributed SQL Database

- · Add support for Pow binary operator for vectorized execution engine #50143
- · Add ability insert DB2 formatted timestamps #50011
- · Coerce invalid geography coordinates into geometry #50457

Pino Low overhead Node.js Logger

- · Allow custom levels to override default and allow to remove default levels #515
- · Add ability to change level name when creating the instance #503

gTasker Chrome Extension

· Create chrome extension to manage day to day tasks while browsing the internet. Performs CRUD operations on Google Oauth2 API and Google Calendar API. This Chrome Extension is published in Google Play Store.

GenoDonor

Genome encoding hackathon

· Worked with 3 other co-workers to create a front-end using React and Node.JS based backend. Create a Web App for sperm donors where users can filter and search for specific genome traits based on donor.

EDUCATION

University of Waterloo