Shao-kan Chu

Software Developer

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🎓 Education

Bachelor Of Science, University of Toronto(St. George Campus)   2017 – Present

4th Year Computer Science Specialist, expected graduation: March 2022   CGPA: 3.77

Subject related CGPA: 3.9+

- 2019 winter Deans List Scholar

⚙ Skills

- **Programming skills:** Python, C, Java, Javascript, C#, Golang, Ruby
- **Web development:** Node JS, Jquery, Ajax, Bootstrap, React, Express.js, RESTful API
- **Tools:** AWS, Docker, Kubernetes, gRPC, Git, Latex, Bash Scripting, Linux OS, PostgresSQL, MongoDB

👥 Work Experience

University Of Toronto   Toronto, Ontario, Canada

Teaching Assistance   Jan 2020 - May 2020

- Lead weekly labs & provides academic assistances for the fundamental CS Course: Introduction to C programming.
- Meets with professor to reflect students feedback, improving course efficiency.

IBM Canada   Markham, Ontario, Canada

Backend Cloud Developer Intern   May 2020 - Aug 2021

- Lead developer of controller based cloud-native control plane components running full fully-managed DB2 Services on Kubernetes.
- Core developer of Data virtualization as a Service, responsible for leading control plane microservices development adapted from DB2 services, complete beta release requirement for billing and management control components.
- Proposed & implemented the infrastructure for business-critical feature disaster recovery, enable a synced backup database in different cloud regions.
- Published benchmarking result for data lake engine Dremio & Presto against IBM product DB2WoC and DVaaS at Competitive Office for Data, using jmeter suite and standard decision support benchmark TCP-DS query on AWS with EC2 clusters and AWS Glue data catalog.

Side projects:

- Build Japanese learning React application by making use of GCP's text-to-speech api
- Implemented variants of Linux ext2 file system, extent-based single user file system using fuse lib in C
- Command line based multiplayer word guessing game achieved by C's socket programming
- parallelize particle simulation with Open MPI, benchmarked its performance

ℹ Miscellaneous

- Home-Blog: https://lvuna.github.io/
- LinkedIn: https://www.linkedin.com/in/shao-kan-chu-639b38173/
- Languages: English - Fluent, Mandarin - Native speaker
- Hobbies: Hiking, Travel, Music, Reading Novel