

Tony Chen

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Skills

Languages: Python, Java, Bash, C, Golang, Scala, JavaScript, HTML, SQL

Technologies: Git, AWS, Kubernetes, Docker, Helm, Grafana, Prometheus, MySQL, Jira

Education

University of Toronto

Sept 2019 - Expected Dec 2023

Honours Bachelor of Science, Computer Science - GPA 3.93

Scarborough, ON

- UofT Scarborough Renewable Scholarship, UofT Scholars, TELUS Entrance Scholarship

Professional Experience

Amazon Web Services

May 2022 - Aug 2022

Software Dev Engineer Intern

Vancouver, BC

- Led project to automate software vulnerability scans eliminating four hours of manual work per release
 - Integrated the vulnerability scans into the internal deployment pipeline
 - Designed the pass/fail criteria to automatically determine when to block deployments
 - Designed and developed Python scripts to implement the vulnerability scans, simplifying and providing a more robust solution compared to the previous manual process

SequoiaDB

Jan 2021 - Sept 2021

Software Developer Intern

Markham, ON

- Developed a batch job service to manage creation, deletion, and querying of Apache Spark batch jobs. (Golang, Docker, Kubernetes, Helm)
 - Integrated service into the frontend by collaborating with frontend developers to create REST APIs
 - Architected solution to provide a history feature for persisting data regarding Apache Spark job runs
- Conducted performance analysis of a data warehouse tech stack: K8s, Apache Spark, Alluxio, and S3
 - Automated performance runs by creating a pipeline using Gitlab CI/CD to make the entire process of deployment, benchmarking, and outputting the results a simple click of triggering the pipeline
 - Designed performance and cost graphs to present to company board members
- Implemented data corruption detection for a data warehouse platform by utilizing checksum files. (Scala)
- Maintained a database performance monitoring tool used in production by over 50 major financial institutions. (Python, Golang, Bash, Prometheus, Grafana, Javascript, HTML)
 - Handled security concerns from a major customer in a timely manner by implementing authentication
 - Resolved crashing issues during high stress workloads by patching bugs in a multi-threaded program
 - Enabled UI language configuration by developing APIs using the Flask framework
 - Communicated with the QA team to investigate and resolve reported defects

Projects

Mock Unix File System

Sept 2020 - Dec 2020

- Created a mock Unix file system in Java applying OOP principles and design patterns
- Developed test suites for the mock file system using JUnit

Recipe Recommendation

Jan 2020 - April 2020

- Implemented an adjacency matrix in C to represent ingredient networks comprising 400 ingredients
- Developed algorithms to solve problems such as finding a replacement for an ingredient in a recipe