TONY CHEN

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EDUCATION

University of Toronto   Sept 2019 - Expected Aug 2023
Honours Bachelor of Science, Computer Science
GPA: 3.93/4.0

UofT Scarborough Renewable Scholarship, UofT Scholars, TELUS Entrance Scholarship

SKILLS

Languages	Python, JavaScript, Java, C, Bash, HTML, CSS, SQL
Frameworks	React, Angular, Express.js, Node.js
Tools	Git, AWS, Docker, Kubernetes, Helm, Grafana, PostgreSQL, Neo4j
Soft Skills	Attentive to detail, Communication, Problem solving

EXPERIENCE

Amazon Web Services   May 2022 - Aug 2022
Software Dev Engineer Intern   *Vancouver, BC*

- Led the automation of software vulnerability scans, resulting in a 20% increase in release efficiency
- Developed and seamlessly integrated Python scripts into the internal deployment pipeline, ensuring robust software security assurance throughout the development process
- Designed a systematic pass/fail criteria with input from stakeholders to automatically block deployments

SequoiaDB   Jan 2021 - Sept 2021
Software Developer Intern   *Toronto, ON*

- Built a batch job service that enabled efficient management and querying of Apache Spark batch jobs
- Automated data warehouse performance benchmarks that facilitated the generation of critical data points for board presentations by streamlining configuration, deployment, benchmarking, and result storage processes
- Implemented a file-based data corruption detection solution, enabling the timely identification of corrupted data
- Maintained a database performance monitoring tool utilized in production by over 50 prominent financial institutions, encompassing security management and crash issue resolution during peak workloads

PROJECTS

Social Strategist. Built a web application to provide Reddit users with insightful account analytics and scheduled post management by using Angular, Express, asynchronous task queues, and blob storage. Enabled continuous integration and deployment onto a virtual machine using Docker and GitHub Actions workflows.

Stock Market Volatility Analysis. Utilized Gaussian mixture models, Ordinary least squares, LASSO, Ridge, and Elastic Net Regression to predict stock market volatility based on the CBOE volatility index (VIX) and equity market volatility (EMV) tracker, revealing underlying market behavior and driving factors.

Focus Session. Designed and implemented a Google Chrome extension enabling users to effectively block distracting websites for designated time intervals, enhancing productivity and focus.

Recipe Recommendation. Developed algorithms using C to solve problems such as finding a replacement for an ingredient in a recipe by representing ingredient networks comprising 400 ingredients with an adjacency matrix.