Cheryl Zhang

cher.zhang@mail.utoronto.ca | 647-280-7694 | www.linkedin.com/in/cheryl-zhang1

Programming Languages: Java, C/C++, JavaScript/TypeScript, Python, SQL, JSON, CSS
Technologies: SpringBoot, Node.js, PostgreSQL, JPA, ReactJS, OpenAPI/Swagger, Git, Gradle, Postman, Docker, GCP, Azure, JUnit, Mockito

Education

University of Toronto Scarborough
Honours Bachelor of Science, Computer Science Co-op (2022-2027)

- Awards: University of Toronto's Highest Tier Entrance Scholarship

Projects

Speech Summarizer
Winner of Best Mobile App at Ignition Hacks 2023

- Worked with a team of 3 to create a web app where users upload audio/video files of their meetings and the app will take that file and convert it into condensed and informative meeting minutes.
- Made a REST API that calls Google Cloud's Speech to Text API to orchestrate a seamless conversion of audio content into text.
- Deployed the application to Google Kubernetes Engine(GKE) utilizing Docker containers and managed through the Kubernetes container orchestration system.

Product Comparison Web Application

- Assembled a REST API in Java that seamlessly integrates with OpenAI's API that finds the ingredients of products given their names and stores each user search into a postgresql database.
- Incorporated data processing mechanisms to identify common ingredients and highlight those unique to each product.
- Implemented ReactJS to build a dynamic webpage where users can input products to compare only if they are logged in. There is also a history page that displays all past requests.

Music Sequencer
University of Toronto Scarborough Intro to Computer Science II

- Completed a C programming assignment focused on implementing a mini music sequencer using a binary search tree (BST) to store essential attributes like frequency, bar, and index.
- Constructed a function to reverse BST note order by recursively exchanging left and right subtrees, while concurrently updating node bar and index values.
- Implemented a function to harmonize notes in the BST by traversing existing notes and introducing new ones, shifted by defined semitones in frequency and time in their index value.

Relevant Experience

Vice Head of CodeHers Collective (2021-2022)

- Instructed club members on the basics of different coding languages such as HTML, CSS, and JavaScript through weekly online coding workshops.
- Aided club members in creating their own dynamic and interactive web pages using a combination of the languages they learned through the workshops.