Cheryl Zhang

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Programming Languages: Java, C/C++, JavaScript/TypeScript, Python, SQL, JSON, CSS, HTML
Technologies: SpringBoot, Node.js, PostgreSQL, JPA, ReactJS, Firebase, OpenAPI/Swagger, Git, Gradle, Maven, 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 mobile 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.
- Developed a REST API using Node.js and TypeScript, which calls Google Cloud's Speech to Text API to facilitate the smooth 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

- Designed a REST API in Java that seamlessly connects with OpenAI to retrieve product ingredients based on their names, while utilizing JPA to efficiently store each user's search data in a PostgreSQL database.
- Incorporated data processing to identify common, and unique ingredients as well as percentage similarity of products.
- Implemented ReactJS to build a dynamic webpage and used Firebase for user authentication.
- Utilized JUnit and Mockito to perform unit testing for the backend microservices.

Personal Portfolio (https://www.cherylzhang.dev/)

- Developed a dynamic web application using React.js, leveraging the Remix framework.
- Implemented seamless user experience across various screen sizes by utilizing Tailwind CSS.
- Incorporated engaging animations using Framer Motion, with text and image elements appearing on-screen as the user scrolls, providing a modern and visually appealing interface.

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.
- Developed a function to reverse BST note order and update node values recursively.
- Created new harmonized notes in the BST by shifting frequencies and index values.

Relevant Experience

Vice Head of CodeHers Collective (2021-2022)
North Toronto Collegiate Institute

- 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 interactive web pages using a combination of the languages they learned through the workshops.