Cheryl Zhang

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Programming Languages: Java, JavaScript/TypeScript, Python, C, SQL, JSON, CSS, HTML
Technologies: Spring Boot, Node.js, PostgreSQL, JPA, ReactJS, Firebase, OpenAPI/Swagger, Figma, Gradle, Maven, Docker, JUnit, Mockito, WireMock, Android Studio, Auth0, Jenkins, Openshift, Pega Robotics

Education

University of Toronto Scarborough
Honours Bachelor of Science, Computer Science Co-op (2022-2026)
- Awards: University of Toronto's Highest Tier Entrance Scholarship, Dean's List 2024

Experience

RBC Technology and Operations   Jan 2024 - August 2024
Developer Intern   *Hybrid*
- Spearheaded the development of a **POC** to integrate **Spring Boot** applications with **Camunda 8** via its SaaS offering. The initiative aims to enable E2E integration between RBC client applications and Camunda8 Saas Engine using Apigee Hybrid.
- Developed over **100 JUnit** tests using **Mockito** and **WireMock** for a library managing Amazon S3 presigned URLs which required deep understanding of the business requirements' implementation.
- Implemented an automated email process using **Pega Robotics** to remind Account Managers of unfinished One Way Letters (OWLs) and deliver completed OWL PDFs. Built a process to convert base64-encoded OWLs content into PDFs using **Microsoft's Outlook Object Library**, which are then stored on a NAS drive. These workflows handle a monthly volume of **700-900 OWLs**.
- Deployed applications to Helios, an in-house CI/CD pipeline integrated with **OpenShift** and **Jenkins**. Resolved deployment issues in environments such as DEV, QAT and UAT.

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 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** using Java to connect with **OpenAI's API** to retrieve product ingredients based on their names, while utilizing **JPA** to store each user's 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.

Leadership

SVP of Marketing   June 2024 - Present
Computer Science Enrichment Club (CSEC)
RBC Summer Tech Labs Mentor   July 2024 - August 2024
AccelHERation Mentor   Oct 2023 - May 2024
Women in Computer Science, Statistics & Mathematics(WiCSM) at UTSC