Diana Shi

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Skills

Languages: C/C++, Java, Python, Kotlin, HTML/CSS, JavaScript, SQL, Swift

Technologies: AWS, Vue/Vuex, React, Spring Boot, Hibernate, MSSQL, MySQL, MongoDB, REST APIs, Liquibase,

Bootstrap, Linux, Flask, GCP, Kubernetes

Experience

Software Engineering Intern

May 2024 - Aug 2024

DoorDash

• Incoming software engineering intern at the Merchant team, set to contribute to **backend development**, focusing on implementing features such as frictionless signup and reliable order transmission

Software Engineering Intern

Jan 2023 - Apr 2023

UKG

- Modernized a monolithic legacy Java codebase into a containerized **Microservices** model, wrote **Lower-level design** documentations for utilizing **application service platform components** to achieve enhanced application scalability
- Implemented the Factory Pattern and the Bridge Pattern to create service objects at runtime and decouple logical service interfaces from implementation details in a microservices architecture
- Refactored Gradle dependencies, resulting in streamlined development processes and improved build time by 11%
- Deployed the application environment on **Jenkins** and **Google Cloud Platform** using **Kubernetes** to ensure software integrity after code modernization
- Wrote comprehensive unit and integration testing strategies using **JUnit** and **Mockito** to ensure high code quality and full test coverage

Full Stack Software Developer Intern

May 2022 - Aug 2022

CI Technologies

- Designed and implemented a full stack solution for **authentication** to an existing web application by configuring **Spring Boot application** to work with two login pages via **HttpSecurity configuration**
- Implemented advanced search APIs utilizing Hibernate Query Language (HQL) and proprietary abstraction built
- Created Data Transfer Objects to encapsulate data and parameters for method calls and maintained the Controller-Service-Repository pattern
- Implemented user-interface and user-experience for several core application pages based on Figma mockups
- Maintained and improved existing **RESTful interface** for front-end consumption
- Implemented application database schema migrations via Liquibase scripts in YAML and SQL format

Full Stack Developer Intern

Sept 2021 - Dec 2021

CI Technologies

- Used **Hibernate ORM** framework for data persistence related functionality created **POJO classes** and mappings using **Hibernate annotations** such as @Entity and @ManyToOne
- Handled the HTTP requests and responses using Controller-Service-Repository pattern
- Implemented 30+ configurable features on several existing projects, at the core of which included functionality for generating **Twilio API tokens**, and implementing a set of reporting/analytical features
- Migrated an existing project from Java 10/11 to Java 17 which improved backend performance and mitigated several security vulnerabilities

Projects

WatCarPool | Python, JavaScript, MySQL, GitHub

December 2022

- Developed a full-stack web application in **JavaScript**, **Python** and **MySQL** for the database to provide a carpooling platform for drivers and passengers in the Ontario region
- Created UI in React and implemented backend APIs in Flask to enable users to browse, join, and create trips

GasMap | Swift, GitHub

September 2022

- Developed an iOS mobile app with **Google Maps Platform** and integrates **Google Maps API** with Moya and **Google Places**, enabling users to search for nearby gas stations and view their locations on a map
- Used MVVM design pattern to utilize code reusability and enrich UI design with the backend functionality

Education

University of Waterloo

Sep. 2020 – April 2025 (Expected)

Bachelor of Computer Science, Artificial Intelligence Specialization

Waterloo, Ontario

- Excellent Standing for all full-time academic terms
- Relevant Coursework: Data Structure and Management, Object-oriented Software Development, Computer Architecture, Operating System, Artificial Intelligence, Computer Networks, Distributed System