

Christina Zhou

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Work Experience

Software Developer | Genesys

MySQL, Java, Python, Vue, AWS, Selenium

Jan 2021 - Present

- Created **procedures and events** to add custom date **partitioning** to MySQL shortening query time from 11s to 2s
- Built **Python script** to create a New Relic metric dashboard and reported custom parameters for **50k+ reports per day**
- Built **CRUD APIs** in Java to allow users to easily interact with links and attachments using **AWS Lambda and DynamoDB**
- Loaded **88 million rows** to AWS **Aurora Serverless** database from csv using **MySQL API** shortening insertion time by **200%**
- Wrote **E2E and load tests** for concurrent users and parallel tasks to check code efficiency, quality and functionality

Full Stack Developer | Newtopia

Java, SQL, Apex

May 2020 – Aug 2020

- Constructed **RESTful APIs** with **12k+ users** where they can automatically complete workout goals through Fitbit and view goals on the mobile app
- Integrated client exit procedure through **querying, creating a batch job** and unsubscribing Fitbits for **3k+ users**
- Built save reminders with Apex and JS to protect clients from losing data

Front End Developer | Does Software Inc

React, HTML, CSS

Apr 2019 – Jul 2019

- Designed and built **front-end abstractions**, working closely with designers to build **reusable components**
- Programmed **controlled components** to support adding customized orders to cart using React lifecycles methods and functional hooks

Projects

Orderio 🐭

React, Axios, NodeJS, HTML/CSS

- Partnered with SalesPlus POS, a **startup with 20+ restaurant clients** developing a webapp for customers to scan a QR code and directly order from their own phones
- Using **React and a Node server**, created webapp for efficient mobile ordering over **HTTP**
- Reduced customer wait times by **15 minutes** and staff walking time by 20%

Study with Me! 📖

React, Bootstrap, Express.js, MySQL

- Webapp for students to study together online with public and private groups and session signups during Covid
- Designed **tables with vertical partitioning** for user credentials, groups, and scheduled activities
- Built CRUD APIs with **express to handle requests** and query in model for user logins, scheduling sessions, and creating groups
- Use **Zoom API** to automatically generate and assign meeting links

Smart Mirror 📺

Python, OpenCV, React, RESTful APIs

- Integrated facial authentication using OpenCV
- Built widgets using Spotify Web API and Google Calendar API

Skills

Languages: JavaScript, Python, SQL, Java, C++, Apex, HTML, CSS

Libraries/Tools: React, Bootstrap, Node.js, Express.js, MySQL, Vue, AWS (Lambda, DynamoDB, Aurora, RDS), Numpy, Git, Jira, Jenkins, Maven, Selenium

Education

UNIVERSITY OF WATERLOO

Software Engineering, Sept 2019 – Apr 2024

- 3.9 cGPA (91.2%) — Dean's Honour List (Top 15%)
- Student Ambassador @Grace Hopper Conference
- **Courses:** Data Structures and Algorithms, Database Management, Digital Systems, Sequential Programs, Software Engineering Principles, Combinatorics

Awards

- 2020** Google Hash Code Competition – Top 30 in Canada
- 2019** Waterloo President's Scholarship of Distinction
- 2018** Education Computing Ontario Competition – Central Region Silver (2nd out of 100+ teams)

Community

Lead Programming Instructor

Aurora Programming Club

React, HTML, CSS

Sep 2018 – May 2019

- Taught 20+ students OOP and common algorithms, **boosting student scores by 60%** for the Canadian Computing Contest and Education Computing Organization Contest after 1 year of teaching

Organizing Team

Genesys Woman in Technology

Why Code Aurora

Rewriting The Code

Capital One Mentorship Program

- Planned and marketed various events to promote women in STEM

Interests

- Badminton (Nationals)
- Violin (10+ years)
- Escape Room Enthusiast
- Avid Board Game Player (30+ rooms)