

Gordon Wang

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EDUCATION

- **University of Waterloo** Waterloo, ON
Computer Science and Financial Management; Cumulative Average: 91/100 Sep 2023 – May 2028

EXPERIENCE

- **Advantage Group International** Toronto, ON
Software Developer Co-op May 2024 - Present
 - **Database (PostgreSQL):** Developed SQL update scripts to generate tables and views for data collection.
 - **Back-end (Java Spring Boot):** Developed DAOs, JPA Repositories, Rest API queries, Quartz jobs, and Junit tests for data collection in the backend of company survey software. Created an entire backend process to convert user IP addresses into Geographic location details and storing the data into database views.
 - **Front-end (Angular):** Feature and performance enhancements for the Angular application that provides an user-friendly interface for data management.
 - **Data Migration:** Orchestrated a data migration by developing SQL scripts to migrate data between PostgreSQL tables. Ensured data accuracy and integrity throughout the migration process.
 - **Tableau:** Engineered data visualizations and reports using historical user geographic data in Tableau.
 - **Agile Development Cycle:** Daily scrums, code reviews, and project management using youTrack.
- **Waterloop Design Team** Waterloo, ON
Web Team Lead (Sep 2023 - present) / Full-stack Developer (Apr 2022 - Aug 2023) Apr 2022 - present
 - **Front-end Development (React/Typescript/React Hooks/Route/Redux/Styled-components/CSS/Figma):** Worked closely with UX/UI designers and other developers to ensure that the features meet both aesthetic and functional requirements. Notable tasks include developing an Amazon-like eCommerce web page featuring product listing and product details pages.
 - **Back-end Development (Node.js/Express/Knex):** Worked with queries and APIs to connect Content Management Site with Main Website. Notable tasks include implementing an entire Google Authentication feature and a popup dialogue for users to send Gmails using Gmail API.
 - **Leadership Role:** Organized all the meetings, planned the term goals and delegate different task.
- **G12 Uni (UWaterloo Velocity Startup)** Waterloo, ON
Full-stack Developer Nov 2023 - Apr 2024
 - **Front-end Web Development (React/Route/CSS/NextUI):** Developed dynamic web pages with responsive design while optimizing existing components.
 - **Back-end Web Development (Firebase):** Integrated RESTful APIs and managed database updates.
- **University of Waterloo Residence Council** Waterloo, ON
Vice-president of Finance Sep 2023 - Apr 2024
 - **Communication and Teamwork:** Co-led team of 8 members to organize events and budget costs for residence.

PERSONAL PROJECTS

- **Robo Stock Portfolio Advisor (Python, Panda, Numpy):**
Python program that consumes a list of stocks and generates the safest possible portfolio from the given stocks. Designed and programmed an algorithm to compare the correlation between different stocks' historical data. The least uncorrelated group of stock is picked in order to diversify the portfolio.
(Github: <https://github.com/G-Wang12/Safe-Portfolio-Robo-Advising>)
- **A2 Console User Geographic Info Collection (PostgreSQL, Java Spring Boot, Tableau):**
Developed a new Geographic info collection feature for Advantage Group's survey software.
 - Created SQL update scripts to generate tables and views for storing user geographic information.
 - Implemented a process in the Java Spring Boot backend to store user IP addresses during survey data transfer.
 - Developed a data transfer service and Quartz job for converting the stored IPs into Geographic info for survey users.
 - Created a Tableau report containing multiple chart views to analyze historical geographic data from survey users.
 - Developed data migration scripts to transfer old raw survey response data into the new geographic info table.
- **Summer Camp Site (React, Typescript, Javascript, HTML, CSS):** Developed a website using React.js to help promote a friend's summer camp. Integrated Google Analytics to view user statistics.
(Github: <https://github.com/G-Wang12/Summer-Camp-Site>)

TECHNICAL SKILLS

- **Languages:** Java, Python, C, C++, JavaScript/TypeScript, SQL, HTML/CSS, Racket
- **Libraries/Frameworks:** React.js, Node.js, Express.js, Knex.js, Redux, Styled-components, Angular, Spring Boot, PostgreSQL, pandas, numpy, matplotlib, yfinance, Quartz, JPA, Hibernate
- **Developer Tools:** Git, Gitlab, Docker, VS Code, IntelliJ, Figma, Clickup, youTrack, Firebase

SOFT SKILLS

- **Fast Learner:** Self-taught Full-stack development with React.js and Express.js using open-source projects. Learned Java Spring Boot and Angular on the job and still finished all tasks ahead of schedule.
- **Teamwork and Communication:** Elected to high school Executive Student Council for all three years eligible, serving as President in the final year. Led the council in budgeting and event-planning.
- **Problem-solving:** Excelled in Math courses at UWaterloo using expert problem-solving abilities.
- **Attention to Detail:** Always paying attention to details to help avoid bugs in software systems.

TEAM PROJECTS

- **G12 Uni Platform (React, Firebase):**
Platform to simplify the university selection process for high school students by connecting them with their university community and guiding them to find the right university and major. (Link: <https://g12uni.com/>)
- **Waterloop Main Site (React, Typescript, Redux, Styled-components, HTML, CSS, REST API):**
Site to represent Waterloop professionally so we can help establish and sustain our network of supporters and sponsors, as well as showcase all the cool stuff the team is working on. Also includes a recruitment section.
(Github: <https://github.com/waterloop/waterloop-website>)
- **Waterloop CMS (React, Typescript, Javascript, Redux, Node.js, Express.js, REST API, HTML, CSS):**
Content Management System for Waterloop sites. Allows executives to directly update the content on main site without needing to change the codebase themselves.
(Github: <https://github.com/waterloop/waterloop-cms>)
- **Waterloop Executive Dashboard (React, Typescript, Redux, Styled-components, HTML, CSS):**
An all-in-one ATS and member analytics tool used by subteam leads.
(Github: <https://github.com/waterloop/executive-dashboard>)

NOTABLE FEATURES IMPLEMENTED

- **Google Authentication on Executive Dashboard (React, Typescript, Redux, REST API):**
Implemented the whole Google authentication process on Executive Dashboard user login.
 - Imported and configured the @react-oauth/google library
 - Developed components to manage the Google authentication steps on the frontend
 - APIs to manage user profile and access token in backend
 - Stored and retrieved access tokens using cookies and Redux
 - Validated access tokens on both frontend and backend
- **Gmail API on Executive Dashboard (React, Typescript, Redux, Styled-components, REST API):** Feature to send applicants acceptance/rejection emails with google Gmail APIs.
 - Created a popup dialog for user input of email addresses and bodies on the frontend
 - Built backend APIs to send emails using Gmail API with user access tokens
 - Validated access tokens and updated responses in the database
- **Merch Store Feature on Main Site (React, Typescript, Redux, REST API, Knex):**
Amazon-like store with products list and product details pages that allows users to purchase Waterloop merch.
 - Designed new PostgreSQL tables using Knex
 - Created database seeds for mock data in CMS
 - Developed APIs to provide merch product data to the main site
 - Implemented pages and hooks to display product lists and details on the frontend