Gordon Wang

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EDUCATION

University of Waterloo

Waterloo, ON

Computer Science and Financial Management: Cumulative Average: 91/100

Sep 2023 - April 2028

EXPERIENCE

Advantage Group International

Toronto, ON

Software Developer Co-op

May 2024 - Aug 2024

- Database (PostgreSQL): Developed SQL update scripts to generate tables and views for data collection.
- o Back-end (Java Spring Boot): Developed DAOs, JPA Repositories, Rest API queries, Quartz jobs, and JUnit tests for data collection in the back-end of company survey software.
- o Front-end (Angular): Enhanced features and performance of existing web app to provide an intuitive data management interface. Utilized **Gradle** as the build tool for efficient project configuration and management.
- o Data Migration and ETL Process: Orchestrated a data migration by developing SQL scripts to transfer data between PostgreSQL tables. Implemented an ETL process to move data from the database to the data warehouse.
- Tableau: Engineered Tableau dashboards with map and chart views to report on user geographic info.
- o Agile Development Cycle: Daily Scrums, Code Reviews, Git version control, CI/CD, and Jenkins deployment.

Waterloop Design Team

Waterloo, ON

Web Team Lead/Full-stack Developer

Apr 2022 - Apr 2024

- Front-end Development (React/Typescript/Redux/Styled-components/CSS/Figma): Worked closely with UI/UX designers and other developers to ensure that the features meet both aesthetic and functional requirements.
- Back-end Development (Node.js/Express/Knex/Axios/Docker/Google Cloud): Developed APIs and database queries to connect the Content Management System with the main website.
- Leadership Role: Organized all the meetings, planned the term goals and delegated different tasks.

G12 Uni (UWaterloo Velocity Startup)

Waterloo, ON

Full-stack Developer

Nov 2023 - Apr 2024

- o Front-end Web Development (React/NextUI): Developed dynamic web pages with aesthetic design.
- Back-end Web Development (Firebase): Integrated RESTful APIs and managed database updates.
- Resource Management and Software Design: Led project planning, brainstorming sessions, and utilized UML diagrams to design and communicate software architecture.

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.

Projects

Robo Stock Portfolio Advisor (Python, Panda, NumPy, Jupyter Notebook, yfinance, Bash):

Python program to create the safest possible stock portfolio from a given list.

- Designed and implemented an algorithm to analyze and compare stock correlations based on historical data.
- Utilized **Pandas** for data manipulation and analysis, including data cleaning, transformation, and visualization.
- Leveraged NumPy for numerical operations and efficient handling of large datasets.
- Generated a diversified portfolio by selecting the least correlated stocks to minimize risk. (Github: https://github.com/G-Wang12/Safe-Portfolio-Robo-Advising)

A2 Console User Geographic Info Collection (PostgreSQL, Java Spring Boot, Tableau): Geographic info collection 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 back-end 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.
- Orchestrated an ETL process to transfer historical survey data into data warehouse.
- Created a **Tableau** report containing multiple chart views to analyze historical geographic data from survey users.

- 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, Bash): 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, HTML, CSS, Docker):
 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, Docker): An all-in-one ATS and member analytics tool used by subteam leads. (Github: https://github.com/waterloop/executive-dashboard)
- Summer Camp Site (React, Typescript, Javascript, HTML, CSS, Bash): 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, Bash, Powershell
- Libraries/Frameworks: React.js, Node.js, Express.js, Knex.js, Axios, Redux, Styled-components, Angular, Spring Boot, PostgreSQL, pandas, NumPy, matplotlib, yfinance, Quartz, JPA, Hibernate
- **Developer Tools**: Git, Github, Gitlab, Docker, VS Code, Intellij, Figma, Clickup, YouTrack, Firebase, Jupyter Notebook, Tableau, MongoDB, Gradle, Google Cloud

SOFT SKILLS

- Fast Learner: Self-taught Full-stack development with React.js and Node.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.

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 front-end
 - APIs to manage user profile and access token in back-end
 - Stored and retrieved access tokens using cookies and Redux
 - Validated access tokens on both front-end and back-end
- 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
- Leveraged Redux for state management of merch product data on the main site
- Implemented pages and hooks to display product lists and details on the front-end
- 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 front-end
 - Built back-end APIs to send emails using Gmail API with user access tokens
 - Validated access tokens and updated responses in the database