

# Gordon Wang

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Github: <https://github.com/G-Wang12>

## EDUCATION

- **University of Waterloo** Waterloo, ON  
*Computer Science and Financial Management; Cumulative Average: 91/100 (4.0 GPA)* *Sep 2023 – April 2028*

## EXPERIENCE

- **Shopify** Toronto, ON  
*Software Engineering Intern* *Starting Jan 2025; Ending Apr 2025*
  - **Software Development:** Developing user interfaces with React and building services using Ruby on Rails.
- **Advantage Group International** Toronto, ON  
*Software Developer Co-op* *May 2024 - Aug 2024*
  - **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.
  - **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.
  - **Database (PostgreSQL):** Created **SQL** update scripts to generate tables and views for data collection.
  - **ETL Processing:** Orchestrated comprehensive **ETL** processes to efficiently transfer data to the **data warehouse**, ensuring data integrity and readiness for analysis.
  - **Tableau:** Engineered **Tableau** dashboards with map and table views for **Data Visualization**.
  - **Agile Development Cycle:** Daily **Scrums**, **Code Reviews**, **Git** control, **CI/CD**, and **Jenkins** pipeline.
- **Waterloop** Waterloo, ON  
*Web Team Lead/Full-stack Developer* *Apr 2022 - Aug 2024*
  - **Front-end Development (React/Javascript/Typescript/Redux/CSS/Figma):** Developed **React** web pages with **GUI** elements, collaborating with **UI/UX** designers to meet aesthetic and functional requirements.
  - **Back-end and Database Development (Node.js/Express/Knex/PostgreSQL/Docker/Google Cloud):** Developed **APIs** and database queries to connect the **Content Management System** with the main website.
  - **Leadership and Communication:** Organized all the meetings, planned the term goals and delegated work.
  - **Timely Agile Practices:** Led the team to implement **50%** of a project's features within 4 months.
- **G12 Uni (UWaterloo Velocity Startup)** Waterloo, ON  
*Full-stack Developer* *Nov 2023 - Apr 2024*
  - **Front-end Development (React/Tailwind CSS):** Developed dynamic React web pages with aesthetic design.
  - **Back-end Development (Firebase):** Integrated **RESTful APIs** and managed database updates.
  - **Startup Growth:** Scaled monthly website visits from **100 to over 10,000**.
- **University of Waterloo - School of Accounting and Finance** Waterloo, ON  
*Teaching Assistant (CFM-101: Introduction to Financial Markets and Data Analytics)* *Sep 2024 - Present*
  - **Educational Leadership:** Teaching students **Python**, **Pandas**, and **NumPy** for stock data analysis and financial data management, while evaluating assignments for accurate application of data analysis techniques.
  - **Top Academic Achiever:** Selected as one of **only two TAs**, recognized for top academic achievements.

## PROJECTS

- **NeuroGuard (Python, Flask, React, OpenCV, MediaPipe, TensorFlow):**
  - **Objective:** Provide Alzheimer's caregivers with a real-time fall detection tool and support chatbot to enhance patient safety and caregiving.
  - **Development:** Implemented computer vision techniques with **OpenCV** and **MediaPipe** for fall detection; integrated **Voiceflow** for an AI-powered caregiver assistant.
  - **Hack the North:** Built a fully functional prototype within **36 hours** at Canada's largest hackathon.
  - **Outcome:** Achieved robust fall detection and a user-interactive support chatbot, demonstrating the potential of AI-driven solutions in healthcare.
  - **Link:** DevPost

- **Robo Stock Portfolio Advisor (Python, Pandas, NumPy, yfinance):**
  - **Objective:** Build a Python-based tool to recommend low-risk stock portfolios based on user inputs.
  - **Data Processing:** Cleaned and processed historical stock data using **Pandas** and **NumPy** before analysis.
  - **Risk Management:** Developed a **Python** algorithm to select minimally correlated stocks, generating a low risk portfolio of stocks for the user.
  - **Outcome:** Enabled users to construct risk-mitigated, diversified portfolios, supporting safer investment decisions.
  - **Link:** GitHub
- **A2 Console User Geographic Info Collection (PostgreSQL, Java Spring Boot, Tableau):**
  - **Objective:** Develop a data collection system to capture and visualize user geographic information for survey software.
  - **Database:** Created **SQL** scripts to generate tables and views, allowing user geographic data to be stored and updated.
  - **Backend Development:** Built a backend process in **Java Spring Boot** to store and process user IP addresses, utilizing **Quartz**, **JPA**, and **Hibernate** to implement a data transfer service that converts IPs into geographic info.
  - **ETL Pipelines:** Orchestrated an **ETL** process to transfer historical survey data into data warehouse.
  - **Outcome:** Provided comprehensive geographic data visualizations in **Tableau**, improving survey response insights.
- **Waterloop Main Site (React, TypeScript, Redux, Styled-components):**
  - **Objective:** Develop Waterloop's official website to support networking, sponsorship, and recruitment.
  - **Front-end Development:** Implemented features such as an Amazon-like merch store using **React**, **Redux**, and **Axios**, improving user engagement and e-commerce functionality.
  - **Bug Fixes:** Resolved user-reported website issues to enhance functionality and improve user experience.
  - **Outcome:** Delivered an interactive site, enabling efficient recruitment and outreach for Waterloop's community.
  - **Link:** GitHub
- **Waterloop CMS (React, TypeScript, Node.js, Express.js, Docker):**
  - **Objective:** Engineer a Content Management Site for Waterloop, enabling executives to update content on main site without developer assistance.
  - **Backend System:** Developed secure **REST APIs** with **Node.js** and **Express.js** for streamlined data transactions on features like the merch store page on main site.
  - **Database:** Implemented new **PostgreSQL** tables using **Knex.js** library to store backend data.
  - **Outcome:** Allowed seamless content management and reduced developer workload for frequent updates.
  - **Link:** GitHub
- **Waterloop Executive Dashboard (React, TypeScript, Redux, Docker):**
  - **Objective:** Create an ATS and analytics tool for tracking recruitment and team performance.
  - **Development:** Implemented **Google OAuth** login, integrated **Gmail API** for email automation, and developed an interactive dashboard for recruitment tracking.
  - **Outcome:** Improved recruitment workflow and streamlined team performance monitoring.
  - **Link:** GitHub
- **G12 Uni Platform (React, Firebase):**
  - **Objective:** Build a platform to connect high school students with university mentors and programs.
  - **Development:** Developed a "Find Mentor" feature, enabling users to find university mentors by school and program.
  - **Outcome:** Provided high school students with valuable resources for exploring post-secondary options.
  - **Link:** G12 Uni Platform
- **Summer Camp Site (React, TypeScript):**
  - **Objective:** Develop a promotional website to increase visibility for a summer camp program.
  - **Development:** Built an aesthetically appealing website using **React** with a focus on visual design to attract users.
  - **Outcome:** Improved program visibility and increased user interest through effective digital presentation.
  - **Link:** GitHub

## TECHNICAL SKILLS

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- **Languages:** Java, Python, C, C++, JavaScript, TypeScript, SQL, HTML, CSS, Racket, Bash, Powershell
- **Libraries/Frameworks:** React.js, Angular.js, Node.js, Express.js, Knex.js, Axios, Redux, Styled-components, 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, Linux