

# JINGKE LIANG

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## SKILLS

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**Soft Skills:** Active Learning, Team Collaboration, Design Thinking, Agile methodology, Adaptability, Effective Communication, Problem Solving

**Programming languages & frameworks:** Python, Java, C/C++, R, SAS, HTML, CSS, JavaScript, PHP, React, React Native, Angular, SQL, Swift

**Tools & Technologies:** Git, Jira, Figma, Vercel, Microsoft Office, Firebase, WordPress, D3.js, jQuery, Maple, NumPy, Scikit-learn

## EXPERIENCE

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### Software Developer | *StorageVault Canada Inc.*

Toronto, ON 10/2021- 09/2023

- Collaborative Development: participating in sprint planning, daily stand-ups, and retrospectives to ensure timely and high-quality deliverables in DataVault Agile team and working closely with business leaders and designers to align on project requirements.
- Innovative Solutions: developed React components (such as date picker, toggle switch, paginations, hover effect, map API) and implemented interactive elements, enhancing user experience.
- Supported testing and maintenance for client portals and product pages using Node.js and PHP, following best practice in data security and cloud integration.
- Identified and resolved technical issues, ensuring smooth operation and user satisfaction.

### Full Stack Developer Intern | *FlexSpace Logistics*

Toronto, ON 06/2021 – 10/2021

- Collaborative Development: collaborated with a cross-functional team in FlexSpace Logistics, actively engaging in business discussions to align site design with business objectives.
- Innovative Design: designed wireframes using Figma and developed site functionalities with WebFlow, contributing to brand messaging and higher conversion rates.
- Database optimization: engaged in troubleshooting and optimizing database to improve data retrieval speed and efficiency
- Identified and resolved technical issues, ensuring a seamless user experience and system stability.

### Website Maintenance Helper | *Mississauga Carmel Mandarin Alliance Church*

Mississauga, ON 06/2018 - Present

- Maintained a user-friendly and up-to-date website for the church community using WordPress
- Successfully collaborated with Elder Board to meet with their requirements and enhance the website's functionality

## EDUCATION

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### University of Guelph

09/2023 – Present

#### *Computing in Computer Science*

- Accumulated GPA 3.7 (average 84)
- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Database Management. Systems, Software Engineering, Artificial Intelligence.
- Key Projects: Financial Portfolio (GUI in Java), Discussion Board (Java Application), Rental Car System (Car Management System in C), DUART Project (EASY68K), Robotics Team Project (ROS), etc.

### Fanshawe College

01/2021-05/2023

#### *Ontario College Diploma in Web Development and Internet Application*

- Graduated with Dean's Honor Roll.
- Developed proficiency in HTML, CSS, JavaScript, React, Angular, PHP, and SQL.
- Worked on multiple group projects and gained hands-on experience in agile development, focusing on collaboration and iteration.
- Key Projects: E-commerce Website (Game Shop Website in Angular), Interactive Dashboard (Data Visualization Dashboard using D3.js and React), Bouncing Ball Game (React Native).

### University of Toronto School of Continuous studies

09/2019 – 12/2019

#### *e-Commerce and Online Business Management Certificate*

- Business Plan Development: used Opportunity Analysis, SLEPT Analysis, Marketing Strategies and Financial Models

### University of Toronto

Graduated

#### *Bachelor of Science in Applied Statistics and Major in Mathematics*

- Relevant Coursework: Probability Theory, Statistical Inference, Regression Analysis, Time Series Analysis, Financial Mathematics, Advanced Calculus, Linear Algebra.
- A+ in Calculus and Linear Algebra for Commerce and Mathematics of Finance for Non-Actuaries
- Key projects: Nutrition Intervention Monitoring Surveys (Statistical Analysis Project using SAS Macro), Data Analysis for Organically Grown vs. Non-Organic Vegetables (Statistical Research Project using R).

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## PROJECTS

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### Financial Portfolio (GUI in Java)

- Developed a graphical user interface (GUI) in Java for managing financial portfolios, including mutual funds and stocks
- Integrated data from various financial sources to provide comprehensive portfolio gain insights
- Conducted thorough testing to ensure accuracy and reliability of financial calculations
- Designed a clean and responsive interface to enhance user experience

### Robotics Team Project (ROS2)

- Participated in the robotics team in University of Guelph, working with Robot Operating System (ROS) to develop and program autonomous robots
- Collaborated with team members to design, build, and program robots for various tasks and competitions
- Conducted extensive testing to ensure robot performance and reliability

### Discussion Board (GUI in Java)

- Created a discussion board application in Java to facilitate online communication and collaboration
- Provided a platform for users to engage in meaningful discussions and share knowledge

### Rental Car System (C programming)

- Developed a car management system using C to manage rental car operations
- Implemented functionalities such as car inventory management, rental processing, and customer management
- Utilized linked lists to efficiently manage and manipulate car and customer data
- Conducted extensive testing to ensure system reliability and accuracy

### DUART Clock Project (EASY68K)

- Developed a dual UART communication system using EASY68K, enhancing understanding of 7-level hardware interrupts
- Integrated hardware components to facilitate communication and data transfer
- Gained hands-on experience with low-level programming and hardware interfacing

### Interactive Dashboard (Data Visualization Dashboard D3.js)

- Developed an interactive data visualization dashboard to enable real-time data analysis and reporting.
- Designed a user-friendly interface to interact with the data through filters, tooltips, and dynamic charts utilized D3.js

### Bouncing Ball Game (React Native Mobile Game)

- Designed and developed a mobile-friendly interface to ensure responsive gameplay on varied screen sizes.
- Created gameplay elements, User Interface elements using **React Native's** powerful framework.
- Conducted tests to ensure the stability and functionality of the game and make it accessible to users via Expo snack.

### Game Shop eCommerce Website Demo (Angular Project)

- Designed the UI components and developed core pages, including home, login and new-user registration page using **Angular**.
- Integrated google firebase for user authentication and data management and successfully developed using Vercel.

### Nutrition Intervention Monitoring Surveys (NIMS Research Project, University of Toronto)

- Analyzed the survey questionnaires on infant and young children nutrition for **five different countries**, which were designed as cross-sectional, two-stage cluster sampling method based on administrative areas where NI interventions are currently taking place
- Cleaned and analyzed the data sets from Philippines and contributed in writing the final report in the group of four
- Used **SAS Macro** codes, automatically implement tables into **Microsoft Excel** files for several variables with their frequency, standard error, 95% confidence limits, CV percent and design effect
- Used the result and applied deep learning and machine learning of data analysis on this project

### Data Analysis for organically grown vegetable vs non-organic vegetables (In-class Research Project)

- Collaborated with other six students and took a survey on purchasing habits on vegetables
- Collected data using simple random sampling to ensure a representative sample
- Analyzed the data by coding in **R software** and produced a comprehensive final report
- Presented the main findings and insights to the class, highlighted key trends and conclusions