

# Andy Lin

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## EDUCATION

### York University

August 2023

*BSC Spec Hons. Computer Science (Software Development)*

## RELEVANT COURSEWORK

**Courses:** Discrete Math, Advanced OOP, Data Structures, Design and Analysis of Algorithms, OS Fundamentals, Software Design, System Specification and Refinement, UI/UX, Machine Learning

**Awards:** 4x Dean's Honor List. Graduated With First Class Standing.

## EXPERIENCE

### Software Developer | Capstone - LearningOOP

September 2022 - April 2023

- A collaborative capstone project built using **Angular**, **PostgreSQL**, and the **Spring** framework.
- Designed user-friendly **web application** akin to LeetCode and CodingBat.
- Enhanced it with object oriented programming type questions
- Developed a feature to allow instructors to quickly create problems through a **visual interface**.
- Developed **scripts** in the server to run the code the users created and return the results through **Kafka**.
- Developed **API** for transfer of data between client and servers
- Conducted **code review** sessions.
- **Integrated the platform into the school server system**, ensuring a secure and efficient user experience.

### Teacher Assistant | York University - System Specification and Refinement

September 2022 - April 2023

- **Overhauled** lab session setup and organization, leading to a **30% increase** in student participation and engagement in the laboratory sessions.
- **Devised** and **implemented** 4 new laboratory assessments, resulting in a improvement in student performance in understanding complex system specification concepts.
- Conducted **10+ lab sessions**, addressing over **50 student** inquiries.
- Lead and designed lab tests and enhanced the quality of assessments, resulting in a **15% higher** correlation between lab test performance and lab assessments.

## PROJECTS

### CrystalOptical | Angular, Spring, PostgreSQL, Gradle

- Led a team of four to develop an eyeglasses **e-commerce** site.
- Implemented key features, including a virtual try-on, seamless purchasing, real-time order tracking, and an integrated online chatbox.
- Implemented security measures by configuring **Spring Security** to **encrypt passwords** and **manage login tokens**.

### ArbBot | node.js, discord.js

- Created a Discord bot that benefits sports betting by leveraging an **API** to aggregate odds from various sportsbooks.
- Developed a odds command for displaying best odds of plays across multiple sportsbooks.
- Developed a arb command for identifying arbitrage opportunities within or across different sportsbooks.
- Developed a freebet feature for optimizing the conversion of free bet money into unrestricted money.

### RedPocket | Angular, Spring, MongoDB, Maven

- Designed Redpocket, a web platform inspired by WeChat's Redpacket feature
- Reimagined for users of e-transfers, Venmo, and Cash App. Allowing for users to easily send money in unrestricted ways.
- Redpocket information was saved in **Mongoddb**, allow owners to keep track of who to send money to
- Implemented options for recipients to get portions or receive random values from red packets giving everyone a fun way to send money during new years.

## SKILLS

**Languages:** Java, JavaScript/TypeScript, HTML/CSS, SQL, Python, C/C++,  $\text{\LaTeX}$

**Frameworks and Database:** Angular, Git, Spring, SpringBoot, Node.js, Docker, Gradle, Maven, MongoDB, PostgreSQL