

KA YING KAREN LIN SOFTWARE ENGINEER

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Summary of Qualifications

Languages/Technologies: ReactJS, JavaScript, CSS, Python, Git, GraphQL, Bash, SQL, PHP, Java, Kotlin, C, C#, C++

Courses: Object-Oriented Software Development, Database Management, Architecture, Algorithm, Software Testing

Work Experience

Software Engineering Intern, **Meta**

Seattle, WA | May 2022 – Aug 2022

- Used **ReactJS** and **Hack** to develop both the alert inbox page and the Developer Communication Platform (DCP), a tool enabling Meta employees to communicate with third-party app developers
- Revamped the inbox page using a new React component library to increase consistency of the UI styling throughout the platform, which **increased the new library UI coverage from <5% to 90%+**
- Developed and **designed the UI** for the DCP test-launch feature, allowing sending messages without approvals while restricting the recipients exclusively to Meta employees, which **reduced** the need for **unnecessary manpower**
- Added the alert-template feature into DCP, **improving efficiency** by eliminating the need of composing messages from scratch

Software Engineer Intern, **Achievers**

Toronto, ON | Sept 2021 – Dec 2021

- Used **ReactJS** and **Python** to develop the Announcement and Recognition microservices, services that allow users to create and access announcements, and recognize other colleagues' work
- Worked on user-input validation algorithms to **ensure data integrity** and **prevent database errors**
- Worked with **CSS styling** to enhance the visual appeal of displayed images
- Fixed bug related to CSS styling, data fetching from GCS buckets, and permissions to improve user's experience

Software Engineer Intern, **Achievers**

Toronto, ON | Jan 2021 – Apr 2021

- Used **PHP** to develop the Listen microservice, a platform enabling companies to conduct surveys with employees
- Performed **unit testing** and introduced **mocked objects**, resulting in a reduction of the overall test suite runtime from 10 minutes to **under 7 minutes**

Programmer, **KGS Research**

Toronto, ON | Jan 2020 – Aug 2020

- Used LimeSurvey to produce surveys, and implemented conditions to deal with skip logic as requested by clients
- Used **JavaScript** to shuffle answer options in a client-specified pattern to increase fairness of surveys
- Implemented a formatting tool that converts questions or answer options from Word documents into plain text that is compatible with LimeSurvey, resulting in a **time savings of 10 minutes** per survey for programmers

Relevant Projects

Gen S (Android App)

- Designed the **architecture** and used **Kotlin** to create a tool that generates personalized study plans based on user availability and preferences
- Built the auto-generate plan and manually generate plan page; created **fragments** for readability and maintainability

Secret Gifto (Web App)

- Used **ReactJS**, **Python** and **SQL** to develop an application that randomly assigns gift exchange partners to users
- Used **useContext** hook to manage modal type message, effectively reducing the coupling between components
- Implemented a **graph data structure** to efficiently pair participants with their gift exchange partners

Education

University of Waterloo (Graduated in 2023 Apr) | Honours Bachelor of Computer Science | GPA: 89

Interest

Swimming | Wing Chun | Table Tennis | 3D Modeling | Paddle Boarding | Basketball | Soccer | Ultimate Frisbee | Cycling