**RYAN (YUTONG) LI**

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**WORK EXPERIENCE**

**Software Development Engineer** | Amazon Web Services Jun 2023 – Present

* Software Developer on the AWS Thinkbox Cost Management team, focusing on an upcoming cloud rendering product.
* Responsible for designing, refactoring, implementing, and testing complex customer-facing systems related to cost and monitoring, scalable to millions of customers.
* Utilized Golang, Python, TypeScript, and various AWS services, including Lambda, DynamoDB, S3, and API Gateway.

**Software Development Engineer Intern** | Amazon Web Services Apr 2022 – Aug 2022

* Designed and developed a scheduled usage reporting system using AWS EventBridge, Lambda, SQS, S3, and Step Functions for AWS Thinkbox customers to analyze render farm usages, scalable to millions of customers.
* Collaborated with multiple internal AWS teams to enhance scalability and reliability.
* Implemented error handling and Dead-letter queue alarms using Python and TypeScript CDK, coordinating various AWS services.

**Software Development Intern** | Demonware (Activision) Jan 2021 – Aug 2021

* Created an irregularity monitor interface for Call of Duty game titles' crash database using CherryPy, JavaScript, MySQL, Kubernetes, Prometheus, and Grafana, analyzing hundreds of thousands of crashes each day.
* Implemented login authentication, daily database backups, and an editable configuration for irregularity thresholds.
* Developed a crash reporting NuGet package using C# and GitLab CI.

**Software Development Intern** | Hypatia Systems Sep 2020 – Dec 2020

* Successfully developed and released the production version of the Hypatia Microsoft Office add-in for non-IE browsers, gaining 1 million+ downloads.
* Worked on debugging and implementing features for the add-ons, using JavaScript with jQuery, Semantic UI, and CSS.

**Teaching Assistant** | The University of British Columbia Jul 2020 – Apr 2023

* Provided support as a teaching assistant for CPSC 221, CPSC 320, and DSCI 100 courses.
* Responsibilities included answering student questions, grading assignments, conducting office hours, offering feedback on group projects, and leading tutorials.

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**PROJECTS**

**Relational Datingbase** **– a Dating App** Aug 2020

* UBC CPSC 304 project. Web dating application developed with PHP and MySQL, featuring CSS for styling.
* Designed photo and text feeds, reaction capabilities, MySQL tables, complex SQL queries, and additional features.

**GenkiVocab**  May 2020

* Personal project. Android Studio Java application that provides a dictionary of Japanese vocabulary from the "Genki" textbook.
* Includes detailed information about each word fetched from an online JSON database.

**UBC Course Checker** Apr 2020

* Personal project. Python console application utilizing Twilio for automated SMS.
* Monitors course enrollment URLs and sends reminders via text when seats become available.

**---------------------------------------------------------------------------------------------------------------------------------------EDUCATION**

**Bachelor of Science, Combined Major in Computer Science and Statistics**

University of British Columbia | Vancouver, BC, Canada Sep 2018 – Apr 2023

* Graduated with distinction and co-op, 90.1% average.

**---------------------------------------------------------------------------------------------------------------------------------------SKILLS**

**Languages:** Bash, C, C++, C#, CSS, Go, HTML, Java, JavaScript, TypeScript, PHP, Python, R, SQL, XML

**Software | Frameworks:** Android Studio, CLion, AWS Lambda, S3, EventBridge, AWS Step Functions, DynamoDB, Git, GitHub, IntelliJ, Jira, jQuery, JSON, JUnit, Jupyter, Linux, MySQL, PyCharm, Slack, Visual Studio Code, Xftp, Xshell, Kubernetes, Docker, CherryPy, .NET