

# Ryan (Yutong) Li

Software Development Engineer @ Amazon Web Services  
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## TECHNICAL SKILLS

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### 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

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## WORK

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### Software Development Engineer

JUN/2023 – Present

*Amazon Web Services*

- Software Developer on the AWS Thinkbox Cost Management team, for an upcoming cloud rendering product
- Tasks include designing, refactoring, and implementing complex customer-facing systems relating to cost and monitoring scalable up to millions of customers
- Tech stack includes Golang, Python, TypeScript, as well as a variety of AWS services such as Lambda, DynamoDB, S3, API Gateway

### Software Development Engineer Intern

APR/2022– AUG/2022

*Amazon Web Services*

- Designed and coded a scheduled usage reporting system for AWS Thinkbox customers to analyze their render farm usages, scalable up to millions of customers
- Communicated with multiple internal AWS teams to improve scalability and reliability of project
- Implemented error handling and Dead-letter queue alarms for any possible mishaps
- Coded in Python and TypeScript CDK, coordinating many AWS services such as Eventbridge, Lambda, Step Functions, S3, DDB

## Software Development Intern

JAN/2021– AUG/2021

### *Demonware*

- Created an irregularity monitor interface for the *Call of Duty* game titles' crash database using CherryPy, JavaScript, MySQL, Kubernetes, Prometheus, and Grafana. Features included login authentication, daily database backups, as well as an editable configuration for irregularity thresholds.
- Created crash reporting nuget package to upload program crashes to the internal database using C# and GitLab CI.
- Created new Script Runtime Error crash platform, including a Kafka scraper, new website interface, as well as crash processor to analyze the errors, then uploading them to the crash database.

## Software Developer Intern

SEP/2020 – DEC/2020

### *Hypatia Systems*

- Software developer intern at Hypatia Systems
- Successfully pushed out the production version of the Hypatia Microsoft Office add-in for non-IE browsers
- Worked on debugging and implementing features for the add-ons, built in JavaScript with jQuery, Semantic UI, and CSS.

## Teaching Assistant

JUL/2020 – APR/2023

### *The University of British Columbia, CPSC 221, CPSC 320, DSCI 100*

- Answered student piazza questions, marked assignments, held office hours, gave feedback on group projects, and led tutorials

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## PROJECTS

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### Relational Datingbase – a Dating App

#### *University of British Columbia - CPSC 304*

- Web dating application built using PHP and MySQL, using CSS for styling in a relational database class as a team of three
- Created the photo and text feed, reaction ability, MySQL tables, complex SQL queries, as well as building a statistics page, adding miscellaneous features, and testing/debugging problems

### GenkiVocab

#### *Personal Project*

- Built with Android Studio Java, dictionary of Japanese vocabulary in the textbook “Genki”
- Includes common information about each word found, fetched from an online JSON database

## UBC Course Checker

### *Personal Project*

- Python console application that uses Twilio (an automated SMS service)
- User is prompted to enter a course URL they wish to enroll in, and the application checks the URL with a given frequency. Once a seat has opened, the user is automatically texted as a reminder.
- Utilized web scraping and exception catching for unstable internet connections.

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## EDUCATION

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### **University of British Columbia**

SEP/2018 – APR/2023

*Vancouver, BC, Canada*

- Bachelor of Science, Combined Major in Computer Science and Statistics
- 4.00 GPA