

# BILL(RUIXIANG) QI

bill\_q@outlook.com ◊ +1(404)984-8616 ◊ www.ruixiangqi.com  
https://github.com/Programmer01001101 ◊ https://www.linkedin.com/in/ruixiangqi/

## EDUCATION

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**MS in Computer Science**, University of California San Diego, San Diego, CA Sep 2020 - Dec 2021(Expected)

**BS in Computer Science**, Emory University, Atlanta, GA Aug 2016 - May 2020

Second Major **BS in Applied Mathematics**; Graduated with **the Highest Honor** in Computer science

## EXPERIENCE

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**Software Developer Intern** June 2021 - Sep 2021(Expected)  
Adobe Inc. (Cloud Technology) *Seattle, WA (Remote)*

- Configure queue-based scaling policies in **Kubernetes** for the daemon (an asynchronous requests processing application) of Adobe Cloud's commenting service, which reduce the service's running costs and boost the responding speed.
- Maintain cache consistence in **Redis** between assets on multi-regions of cloud clusters, using a read-only queue in **Java**
- Test and present a proof of concept chaos testing (**ChaosMesh**) project on an Adobe cloud cluster

**Research Assistant** May 2019 - June 2020  
Emory NLP Research Laboratory *Atlanta, GA*  
Alexa Prize@Amazon: **First Place Winner** with \$500,000 cash reward ; **Research paper published**

- Develop a social-bot that achieves an average user rating of 3.8 on a 5-point scale compared to 3.17 achieved by the 2<sup>nd</sup>, and leads an average conversation duration of 7 minutes and 37 seconds.
- Design and construct a database on an **AWS Dynamo DB** for querying sports related information;
- Build a topic handler in **Python** that create open-domain sports-related conversations using a state-machine framework.

**Software Engineer Intern** May 2020 - Aug 2020  
Guarankey LLC *Ann Arbor, MI*

- Build a rental online marketplace website from scratch using **React-Redux, HTML, JavaScript, CSS** for front-end, **Go** for back-end and **PostgreSQL** for Database;
- Create an **AWS Elasticsearch**-based search engine for querying housing information;

**Research Assistant** Jan 2018 - Jan 2020  
Enhanced Learning and Instructional Technologies at Emory *Atlanta, GA*  
**First-author research paper published** in the 51st ACM Technical Symposium on Computer Science Education

- Create a tutoring software using **Java** and **JavaFX**; boost software users' quiz accuracy from 50% to 68% .

## SKILLS

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**Programming Languages** Java, Python, JavaScript, C, Swift, Go, Shell, PHP, HTML, CSS, Matlab, R  
**Database** MySQL, PostgreSQL, Firebase, DynamoDb, ElasticSearch, Redis  
**Libraries and Frameworks** Spring, Maven, Git, Docker, Kubernetes React-redux, Django, Keras, Mxnet, Pytorch

## PROJECTS

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**Canoe Map: an AI-assisted IOS social-app** Lead a group of software engineers to develop an IOS social app and navigation map using **SwiftUI** for front-end, **Swift** for back-end, **Firebase** for database and **agile** project management

**Maya Archaeology in Virtual Reality** Simulate traveling to Maya sites digitally by using Remote scanning, 3D Procedural Software, Game engines, and VR technologies.

**Xquery Parser** Create a naive Java parser for Xpath, Xquery and optimized the join operation in Xquery

**GoHousin** Develop a housing information sharing platform using JavaScript, CSS, HTML for frontend, PHP for backend and MySQL for database