



Rui (Ray) Yin

4th-year Computer Science Major

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TECHNICAL SKILLS

Languages: Java | Golang | Python | JavaScript | TypeScript | C | C++ | SQL | Assembly | Bash

Tools: Git | JIRA | Bamboo | Docker | Bitbucket | Nomad | NSQ | Postman | VSCode | IntelliJ | Markdown

Knowledge: RESTful Design | Computer Networking | Database Design | Machine Learning | OO Design

WORK EXPERIENCE

Teaching Assistant, The University of British Columbia

Sep 2019 – Dec 2019

- Instructed students in office hours to aid with assignments, course materials of a 3rd-year course on Operating Systems including debugging assignments and illustrating concepts such as memory hierarchy and file systems
- Invigilated and marked the exams and graded the assignments as directed by instructor

Software QA engineer, VIPRE (formerly Fusemail) – co-op

Jan 2019 – Aug 2019

- Developed a Golang based test automation tool to check REST call results. The tool used Docker to bring up all services and check database, NSQ message, HTML response based on the implementation.
- Oversaw the manual, load, automation and performance tests for a LDAP-based new product, created necessary mock services for test automation and presented the demo to stakeholders.
- Attended daily scrum meetings and worked on various verification tickets across such as UI or database change in both development and staging environment.

Technologies: Golang | Docker | MySQL | Bash | NSQ | Python | Bamboo | RESTful | Supervisor

PROJECTS

Course Checker – HTML, Golang, RESTful (Personal)

Dec 2019 – current

- Parsed html and notified the user by sending email once there are seats available
- Ran as a server and took REST request to monitor the specific course in the background

DNS Resolver – Java, DNS, UDP (Academic)

Oct 2019

- Recursively made the DNS request to the root server to get the IP address for the given domain
- Extracted information from DNS responses based on DNS packet compression rule

Insight UBC – TypeScript, HTML, CSS, RESTful, Query Language Design, Testing (Academic)

Sep 2018 – Dec 2018

- Implemented a RESTful web server using TypeScript as backend and Bootstrap as frontend
- Wrote a query language interpreter that performs valid query requests for the POST method
- Implemented a recursive method to achieve the same functionality as Document.getElementById()

Online Shopping Database – Oracle SQL, Java, JDBC (Academic)

Feb 2018 – Apr 2018

- Designed and built a relational database application for an online shopping system to manage stock, financial and customer data using Oracle SQL queries
- Worked with a team of 4 members by planning and delegating tasks to complete the task within the deadline
- Developed a friendly multi-user interface using Java, wrote an automated test and presented to TAs

EDUCATION

University of British Columbia – Vancouver, BC, Canada

Sep 2016 – Present

Bachelor of Science, major in Computer Science, GPA: 4.2/4.33, expected to graduate in May 2021.

AWARDS

Trek Excellence Scholarship

2018, 2019

Faculty of Science International Student Scholarship

2018, 2019