



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

ACADEMIC PROJECTS

Course Checker – html, Golang, RESTful 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 Oct 2019

- Recursively make 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 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()

Disassembler – Assembly Language, C, GDB Jul 2018

- Build an application in C that translate the binary file to corresponding Assembly code

Online Shopping Database – Oracle SQL, Java, JDBC 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

Buses'R'Us Android App – Junit Test, XML, JSON parsing, Java Mar 2017 – Apr 2017

- Developed an Android app that maps the location of stops and bus routes on the Vancouver Transit System
- Used XML parsing and JSON parsing to parse Translink arrival and departure data from the AOI to display information and implemented the Junit test framework to test the functionality of each component

WORK EXPERIENCE

Teaching Assistant for CPSC 313, The University of British Columbia Sep 2019 – Dec 2019

- Instructed students in Office Hours to aid with assignments, course materials including debugging
- Invigilated and marked the exams and graded the assignments as directed by instructor

Concepts: Operating Systems | File Systems | Memory Hierarchy | CPU Implementation

Software QA engineer, VIPRE (formerly Fusemail) Jan 2019 – Aug 2019

- Developed a Golang based test automation tool to check result of REST calls. The tool uses docker to bring up all services and check database, NSQ message, HTML response based on the implementation.
- Responsible for the manual, load, automation and performance test for a LDAP-based new product, created necessary mock services for test automation.

Technologies: Golang | Docker | MySQL | bash | NSQ | Python

Staff Assistant, Beijing BLS Spain Visa Centre Jan 2016 – May 2016

- Checked information and took fingerprints and photos for over 50 applicants per day in a team of 5.

EDUCATION

University of British Columbia – Vancouver, BC, Canada Sep 2016 – Present

Bachelor of Science, major in computer science. GPA: 4.2/4.33 (average: 88.3%)

AWARDS

Trek Excellence Scholarship 2018, 2019

Faculty of Science International Student Scholarship 2018, 2019