

RICHARD (YUCHI) ZHANG

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Highly logical and detail oriented. Capable of learning quickly and working in fast-paced environments. Aims to create high quality and performant solutions. Passionate and proficient in Javascript.

EXPERIENCE

Web Application Developer

Kenna, Mississauga, ON

Jan. 2016 - Apr. 2016

- Full stack web development in Lotus Domino server. Built single-page web applications using HTML, CSS, JS, jQuery, LotusScript(VB6), SQL and Lotus Notes.
- Re-implemented a JSON parser in LotusScript, reduced runtime from 15 seconds to 500 ms at 200KB input size. Performed extensive optimizations targeted at LotusScript compiler, including function inlining, avoiding pipeline stalls, and reducing branching & branch predictions.
- Wrote a highly extensible pagination library in JS, which accepts custom HTML templates and achieves progressive rendering through AJAX.
- Refactored over 50% of front-end JS, rewrote numerous LotusScript controllers and SQL queries to integrate a circular-buffer infinite scroll library into CRM applications, allowing table elements to display arbitrarily large amount of data rows.

Support & Quality Associate

Formulating Change Inc, Waterloo, ON

May 2015 - Aug. 2015

- Conducted extensive website testing, made detailed reports on bugs, and managed workflow of feature development of major projects.
- Implemented automated website form testing using JS, ensured all test cases are examined and reduced task from 20 minutes to 30 seconds

PROJECTS

Swag Music - WebGL character which dances according to entropy and FFT analysis of music played on web page, combining concepts of forward kinematics and human modeling

UofT Hacks III, University of Toronto (Top 10 finalist)

Jan. 2016

QUIQ - Android app for university students to ask and vote on questions in class & Angular web app for professors to answer and store responses in Firebase

Delta Hacks II, McMaster University

Jan. 2016

Overflow-ING - Enhanced UI/UX of Stack Overflow, with real time feed powered by React and Firebase, custom question filtering, and automated Skype pairing for question discussion

YHack II, Yale University

Nov. 2015

SKILLS

- Javascript, jQuery, ReactJS, AngularJS
- VB, LotusScript
- Lotus Domino, Node.js
- SQL, IBM Notes Database, Firebase
- C++, C, Scheme
- HTML, CSS, Bootstrap
- Git, Scrum, Continuous Integration
- English, Chinese, French

EDUCATION

University of Waterloo

2B Bachelor of Computer Science

2014 - 2019