

PATIENCE SHYU

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LANGUAGES

Java Javascript
Python Scheme/Racket
C++ HTML/CSS
Rust

FRAMEWORKS

JUnit AngularJS
Django Node.js
jQuery Bootstrap

TOOLS

Selenium git
Jasmine Eclipse
Docker IntelliJ

EXPERIENCE

JUNIOR SOFTWARE ENGINEER: Tasktop Technologies, Jan – Aug 2016

- Developed new features for Tasktop's web-based integration platform for leading ALM tools
- Designed and built new UI with a focus on creating an intuitive user experience
- Automated build and test environments using Docker
- Created and maintained functional verification tests, Selenium UI tests, server and client-side unit tests, performance and endurance tests

TEACHING ASSISTANT: University of British Columbia, Sept 2015 – Present

Courses: Data Structures and Algorithms (221), Systematic Program Design (110)

- Run weekly labs to guide students through implementing, testing and debugging various algorithms in C++
 - Support students by holding weekly office hours and monitoring course's online forum
 - Provide constructive feedback via assignment and exam grading
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PROJECTS

FIND A RESEARCHER: Sept 2016 – Present

- Building a search engine for use at the VP Research + International office at UBC using Python, Django and Solr
- Aggregate data from crawling existing search tools and university database

MINIJAVA COMPILER: Jan 2016 – Present (CPSC 411 course project)

- Built a compiler for a subset of Java using Java, including a parser, typechecker, instruction selector and optimizer

OUT OF MY MIND: nwHacks '16

- Led client-side development of a web-based anonymous chat application aimed at creating a community for students with mental health issues using Node.js, JavaScript and AngularJS

DINOSAUR DETECTOR: DubHacks '15 finalist

- Implemented in a team of 3 a web application that simulates an online scavenger hunt using image recognition APIs (Clarifai), Firebase, JavaScript and jQuery
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EDUCATION

BSc., COMPUTER SCIENCE: University of British Columbia (2014 – 2019)

- Major Entrance Award Recipient (\$20,000), UBC Chancellor's Scholar, Dean's Honour List
- Computer Science Tri-Mentoring senior student mentor
- Computer Science Committee for Outreach, Diversity and Equity student representative
- GIRLsmarts4tech workshops, programming activity lead 2016