

# Brian Xue

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**Skills**   Java, C++, C#, C, JavaScript, Clojure, Git, React.js, Redux.js, Node.js, Express, Python, Flask, HTML5, CSS3, PostgreSQL, Datomic, jQuery, Shell Script, Selenium, Appium, Maven, Cucumber, Spring, Django, AWS, JIRA, Jenkins, Docker

## Experience

Ladder

**Full-Stack Software Developer**

March 2022 - January 2023

- Built A/B tests/experiments for optimizing the insurance application flow and improving various UI elements on the Ladder website using Clojure/Clojurescript
- Utilized Datomic to store backend data and query for experiment analysis/narrow down user experience-related issues
- Increased application completion rates by 5-10% with modifications to the application flow and question layout

Wells Fargo

**Software Developer in Test**

Aug 2016 - Aug 2018

- Eliminated the number of cases requiring manual testing by creating an automation framework for UI and functionality testing on mobile application and web pages (Java, Spring, TestNG, Appium/Selenium)
- Developed separate Java/Cucumber framework allowing non-programmers to write automation for UI and SQL query tests by mapping basic English phrases to Java code
- Optimized testing workflow by implementing HP ALM Integration to testing frameworks, using its REST API to automatically upload test results and analyze failure rates after nightly builds

Qualcomm

**Software Engineer**

May 2015- May 2016

- Increased performance by 10-20% through contribution to the V8 engine, a Javascript compiler written in C++ for Chromium browsers on Android devices with Qualcomm chips
- Analyzed and tested failures reported by customers through JIRA by writing test scripts (Python/Unix Shell), locating the source of the failure (automation and debug logs), and reporting to developers
- Produced new test cases/modified benchmarks for more thorough testing and comparisons with 3-4 competing products

## Projects

**Trivia Dungeon** (JavaScript, React / Redux, Python / Flask, HTML, CSS, Material UI, PostgreSQL)

[Live Site](#) | [Github](#)

*Trivia app where users can submit trivia questions, create sets, and play through them*

- Created database + forms for submitting custom questions, trivia sets, and comments with PostgreSQL and Flask on the backend
- Designed custom React components for playing through trivia questions and going through the basic game loop
- Utilized a Redux store to track trivia questions to load onto the rendering React components
- Allowed users to search for questions and sets by name, or play through random questions with filters for difficulty and category

**Pickr** (JavaScript, Express, Node.js, Postgresql, AWS, HTML5, CSS)

[Live Site](#) | [Github](#)

*Flickr clone, upload images, add them to albums, and leave comments*

- Integrated with AWS S3 for uploading picture(s) and storing them in the cloud
- Designed drag-and-drop interface for adding and organizing uploaded images into albums
- Incorporated comments on pictures, along with editing/deleting capabilities and timestamps
- Constructed tagging system for pictures, allowing users to search for photos based on related tags

**ToDoomList** (JavaScript, Express, Node.js, Postgresql, HTML5, CSS)

[Live Site](#) | [Github](#)

*Remember the Milk clone for creating to-do lists, but for villains*

- Formed one-page interface for viewing lists and looking at details of individual items
- Dynamically display/update list items on app page using pure Javascript
- Implemented API routes for linking Postgres / Express backend with JS / HTML frontend
- Developed forms for users signing up new accounts and logging in to existing accounts

## Education

**App Academy**

Jan 2021 - June 2021

Immersive software development course with focus on full stack web development.

**University of Illinois Urbana-Champaign**

*Bachelor of Science in Computer Science*

Aug 2011 - Aug 2015