

Jessica Cao

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SKILLS

LANGUAGES

Java • C • Python • HTML5 • CSS3 • JavaScript • Bash • SQL

FRAMEWORKS AND TOOLS

Linux • Git • Bootstrap • jQuery • React.js • Salesforce • Maven • Selenium WebDriver • Postman • Google Analytics

EXPERIENCE

JUNIOR QUALITY ASSURANCE ANALYST | NEWTOPIA INC.

May 2019 – August 2019 | Toronto, ON

- Developed automated test scripts in Java which covered **95%** of sanity test cases and **35%** of regression test cases for the company's react native mobile app
- Refactored the company's existing mobile and web automation projects to build with **Maven** and to achieve **continuous integration** with **Bitbucket** and **CircleCI**
- Configured the security permissions of **Salesforce objects** to assist in security testing and **continuous delivery**

WEB DEVELOPER | WATFLY

September 2018 – January 2019 | University of Waterloo, ON

- Team Member of WatFly, a student design team at the University of Waterloo
- Worked with **HTML** and **CSS** to upgrade the WatFly website's functionality and design to ensure enjoyable visitor experience
- Tracked website traffic and visitor interactions with **Google Analytics** to devise strategies for new member recruitment

PROJECTS

COPTIMISM | PYTHON, PYGAME, TKINTER

- Built a chess engine that supports up to two players with a simple AI implemented using the **minimax algorithm**
- Recreated chess environment to ensure valid positions and moves with a team of 5
- Designed GUI icons for check, checkmate, mode selection, and backtracking a move using Python's **tkinter** package

MOOD DETECTION | PYTHON, TENSORFLOW, OPENCV, FLASK

- Developed a web app with **Flask** that determines the user's mood through a device camera
- Used **OpenCV's Haar Feature-based Cascade Classifiers** to identify faces in any image and to process them for a machine learning model that classifies emotions
- Currently working on connecting the front end service, the facial identification script, and the ML algorithm into a coherent web app

SATURN | JSON, TEXTMATE'S LANGUAGE GRAMMARS

- Created a minimal, dark blue theme for **VSCode** and published it to Visual Studio Marketplace and NPM
- Used JSON and TextMate's language to implement **syntax checking and highlighting** for various languages

ABYDOS | ASSEMBLY, C

- Developed a **UNIX-based operating system** in Assembly and C
- Currently building the bootloader and creating a graphical interface

EDUCATION

UNIVERSITY OF WATERLOO | BACHELOR OF COMPUTER SCIENCE

Expected Graduation April 2023 | Waterloo, ON

Relevant Courses: Object-Oriented Software Development (C++), Elementary Algorithm Design and Data Abstraction (C), Linear Algebra I