YUSHUO HAN

SUMMARY OF QUALIFICATIONS

LANGUAGES

Python, JavaScript, Java, C/C++, HTML/CSS, MMIX

DATABASES

MySQL, MSSQL, MongoDB

FRAMEWORKS AND ENVIRONMENT

React.js, Node.js, Express.js, JWT, and Socket.io; SQL Alchemy, CherryPy, Python Regex and Mako; Mapbox; Selenium, Python Request, Python LXML.

TOOLS

MySQL Workbench, SQL Server Management Studio, MongoDB Compass; Postman, Tableau.

2+ YEARS EXPERIENCE IN

Data Structures, Web Programming and Databases demonstrated through various projects

EXCEPTIONAL LEADERSHIP SKILLS

proven through coordination as project leader

STRONG COMMUNICATION SKILLS

with experience of working in teams of various sizes

RELEVANT COURSES

OBJECT-ORIENTED SOFTWARE DEVELOPMENT

Linux shell, OOP, C++, Unix tools, design patterns, testing

DESIGN FUNCTIONAL PROGRAMS (ADVANCED)

Data structures and algorithms, sorting, lazy evaluation, big-O analysis, and lambda calculus

ALGORITHM DESIGN & DATA ABSTRACT.N (ADVANCED)

Mutation, memory allocation, compilers, assemblers, machine language

EDUCATION AND ACHIEVEMENTS

B. OF COMPUTER SCIENCE (2018-2023) **University of Waterloo (Average: 92.4%)**

- Mathematics Global Scholarship for exceptional international applicants
- President's Scholarship of Distinction for over 95% average
- Mathematics Promissory Scholarship for outstanding Euclid contest performance

DISTINCTION (99.5% PERCENTILE WORLDWIDE) AND SCHOOL CHAMPION IN EUCLID/FERMAT/HYPATIA CONTESTS

University of Waterloo | OCT 2016 - JUN 2017

Invited to UWaterloo on-campus workshops based on outstanding contest performances

DEAN'S HONOURS LIST

University of Waterloo | SEP 2018 - APR 2019

Awarded "Term Dean's Honours List" for all terms by maintaining 92% + term average.

Bachelor of Computer Science, 2A

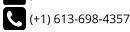
git github.com/shawnhan108

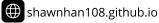


y262han@edu.uwaterloo.ca



linkedin.com/in/yushuo-han/





WORK EXPERIENCE

SOFTWARE DEVELOPER (CO-OP)

Opentext HQ | Waterloo, ON | MAY - AUG 2019

- Pitched and completed a project on the failure analysis feature of interior design software products' web-based internal automation test platform using Python, MSSQL, SQL Alchemy, Python Regex, CherryPy, and Mako Templates; enhanced the efficiency of regression data processing and automated analysis by at least 500%.
- Implemented object-oriented framework functions and mapped **UI objects** using **Python** for **PyWinAuto and command line test** automation framework; new functions decrease network drive file-size by at least 66%.
- Migrated 150+ automated test scripts from Visual Basic to Python. Used Jenkins and Virtual Machines(VMs) for testing.

PROIECT EXPERIENCE

SPOTSHARE JUN - SEP 2019 /shawnhan108/SpotShare-Backend

- Created a photography web app using **Node.js** backend (**RESTful** API), React.js frontend, MongoDB NoSQL database, React-bootstrap framework, Mapbox dynamic map API, JWT authentication, and socket.io for Websocket.
- Featured posts with photography specs, post and location ratings and rankings, customized map and markers, and keyword searching.
- Deployed app at photography-spot-share-front.herokuapp.com/ For best performance, **please use Google Chrome** as the browser.

DOT. | SEP - SEP 2019 | /shawnhan108/DOT.

- Designed and implemented an accessibility application that converts eye movements to communication messages.
- Used a **Keras** library with **Tensorflow** backend to train a **binary** classifier Machine Learning model using dataset between open and closed eyes.
- Translated data input into **Morse code** and further decrypted data into audio output and keystrokes.
- Utilized **Python Opency** for webcam input and **numpy** for Al model.

ARGENTARIA+ | MAY - SEP 2019 | /shawnhan108/Bank_Ecosystem

- Built a banking application using **Python** to model modern bank user accounts and incidence details.
- Stored and manipulated user and account data using MySQL database queries; optimized app data retrieval efficiency by loading data in constructed Python dictionaries.
- Integrated data pipeline with **Tableau** dashboard for **data visualization and analytics** for user behaviour and business insight.

FLIGHT PLANNER | MAY - JUL 2019 | /shawnhan108/Flight_planner

- Implemented a flight planning application that tracks user's flights, monitors flight ticket price fluctuations, and notifies user when all filters and notification criterion are met.
- Scraped flight data from AirCanada.ca using **Selenium** and stored data in MySQL database for analytics using Python.
- Applied statistic algorithms for prices' trend insight.