Thomas Shang

Software Engineering | Developer

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⭘ https://github.com/TShang

Skills

Languages: Java, C/C++, Python, HTML, CSS, PHP, JavaScript, MATLAB, SQL
Tools: Git, MySQL, Eclipse, Android Studio
OS: Windows, Unix
- Competent knowledge of UNIX utilities, shell scripts, and pipelines.
- Familiar with debugging, software testing and version control.

Education

McMaster University: Expected 2016 – 2020
Candidate for B. Eng in Software Engineering – Embedded Systems
Overall Academic GPA: 3.84; Dean's Honor List

Experience

Full Stack Developer   May – August 2017
Top Olympiads, Mississauga, ON
HTML5 • CSS3 • PHP • jQuery • MySQL

- Led development of eLearning student portal, implemented core user functionality including student registration and various student content including homework and lecture viewing.
- Developed email verification and account recovery systems.
- Built a comprehensive administrator page that manages all viewable student content as well as editing of student information.

Assistant Instructor   August 2015 – August 2016
Kumon, Mississauga, ON
- Taught students from K-12 in the subjects of Math and Reading
- Graded and provided feedback for student classwork.

Projects

SMS Desktop: JavaScript, HTML, CSS, PHP
- Built a desktop application that allows users with android devices to send and receive text messages from their computers; using the Electron and SMS Gateway APIs.

Basketball FRVR Bot: Python
- Programmed a bot that plays the Facebook messenger game Basketball FRVR; developed using packages OpenCV, NumPy, and PIL

Employee Database: Java, XML
- Designed an interactive and intuitive GUI allowing for all CRUD functionalities using the Swing GUI toolkit.

Wallpaper App: Java, XML
- Created an app that automatically changes between several pre-set wallpapers after a given interval of time; developed using Android Studio.