Thomas Shang

Software Engineering | Developer

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github.com/Tshang

Skills

Languages: Java, C, C++, Python, PHP, JavaScript, SQL, HTML/CSS
Frameworks: Node.js, AngularJS, jQuery, Spring, Hibernate
Tools: Git, Docker, MySQL, PostgreSQL, MongoDB, AWS

Experience

Software Developer Intern
Autodesk

Toronto, ON
May 2018 – August 2018

Java • Spring • Hibernate • AngularJS • AWS

- Improved reliability over the existing Java servlet by designing and implementing a data processing microservice using AWS
- Developed REST API endpoints using Java, Spring, Hibernate and PostgreSQL.
- Added features in AngularJS to the revamped UI increasing the adoption rate by 25%.

Full Stack Web Developer Intern
Top Olympiads

Mississauga, ON
May 2017 – August 2017

HTML5 • CSS3 • PHP • jQuery • MySQL

- Led full-stack development of eLearning student portal from the ground up
- Implemented core user functionality including student registration, login, account recovery, and content viewing using MySQL and PHP
- Built a comprehensive administrator page that manages all viewable student content as well as editing of student information

Projects

YouTube Sync

- Developed a YouTube player that allows multiple users to watch videos in sync with one another using web sockets

Terminal SMS

- Built a Node.js terminal application that allows users with Android devices to send and receive text messages from a Unix shell using the smsgateway.me API

Basketball FRVR Bot

- Programmed a bot that plays the Facebook messenger game Basketball FRVR; developed using the OpenCV computer vision library

Employee Database

- Designed an interactive and intuitive GUI allowing for all CRUD functionalities using the Swing GUI toolkit

Education

McMaster University

September 2016 – April 2020

Candidate for B. Eng. in Software Engineering
Overall Academic GPA: 3.80; Dean's Honor List