William Mak

Experience

2016 - present   **Intermediate Software Developer at GAdventures**

Developed and maintained the software and systems for the internal tour leader website. This included applications for scheduling tour leaders, payments, and money requests.

Technologies: Python, Django, JavaScript, jQuery, CircleCI, Travis, AWS, ECS, PostgreSQL

- Built a system to interact with multiple RESTful APIs via webhooks to load a system with translations
- Worked with stakeholders to create a portal for tour suppliers to see upcoming activities and transports
- Integrated the systems with the Single Sign-On provider Okta, allowing users to sign-in with a single click
- Improved models dependent on validities to use a single column improving data retrieval from 150ms down to 2ms
- Enhanced the developer experience using Ansible to help developers set up their environments with a single command
- Improved testing times from 500s to 40s by adding parallel testing, isolating tests and removing calls to external systems
- Worked with the DevOps team to replace the on-premises servers with AWS
    - Set up Docker for a Django Application along with Celery Workers
    - Configured CircleCI for continuous integration of the changes
- Developed tools to help improve the developer experience
    - Added Slack notifications to developers on finished deploys
    - Created support tools for common data issues

2017 - present   **Co-Creator of StageKeep**

Designed, developed and maintained an application with a small team to help users manage dancer formations matched to music.

Technologies: C#, Unity, Python, Django, JavaScript, React, AWS, EC2

- Created a cross-platform application using Unity
- Implemented a Django backend to store user data
- Configured the system in AWS using EC2 and RDS
- Improved the application through user testing and getting feedback from users
- Used coverage.py and CircleCI to get automated testing and code coverage reporting

2015 - 2016   **Software Developer at Media Resources**

Developed a web portal to display diagnostics on a company's digital billboards.

Technologies: JavaScript, Angular, Jenkins, Linode

- Created an application allowing users to layout any number of webcams on a page
- Gave users a responsive live visual representation of billboards using PaperJS
- Produced a method that enabled user customization of schedules through a step chart created through Highcharts
- Set up, configured and maintained a Jenkins instance to automate development and production releases
- Migrated the automation suite to Gitlab as to provide overseas developers continuous access to servers

---

Honours Bsc, University of Toronto, Computer Science
william@wmak.io • Toronto, Ontario
Github: wmak