

William Mak

Experience

2016 - present

 **Intermediate Software Developer at GAdventures**

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

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

- Improved currency API response times by 75x by simplifying the structure of data, bringing query times down to 2ms
- Enabled the test suite to be run in 40s by introducing parallel testing and ensuring test isolation, a 12x improvement from before
- Integrated the systems with the Single Sign-On(SSO) provider Okta, allowing users to sign-in with a single click
- Built a system to interact with multiple RESTful APIs via webhooks to help translators translate API resources
- Worked with stakeholders to create a portal for tour suppliers to see upcoming activities and transports
- Enhanced the developer experience using Ansible to help developers set up their environments with a single command
- Set up Docker and configured CircleCI to replace the on-premises servers with AWS and enabled continuous integration

2017 - present

 **Co-Creator of StageKeep**

Architected and developed 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 that works on iOS, Android, Windows and MacOSX
- Architected models and an API structure to store data from the app
- 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**

Designed and built the diagnostic UI for the 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

Education

2011 - 2015

Honours Bsc, University of Toronto, Computer Science

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