Yao Liu

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Employment Experience

GE Digital – *Software Developer*   **Apr. 2018 – Present**

- Develop Java Springboot RESTful APIs for Edge Manager, a microservices-based multi-tenanted cloud application for fleet management built on GE's Predix Industrial IoT platform. Edge Manager handles complex simultaneous deployments of packages, commands, and two-way communication for up to 1 million devices between device and cloud.
- Promote DevOps culture, key personnel in maintaining, managing, and executing CICD Jenkins based Cloud Foundry deployments to international production sites. Write, maintain, and update existing Jenkinsfile, Docker Containers, Bash scripts and other monitoring tools to enable complex build and deployment tasks.
- Planned and wrote automated integration, regression, and end-to-end tests for numerous major mission-critical features, written in Java using TestNG and Python.
- Provide production support through PagerDuty. Enabled and configured AppDynamics, Splunk integrations.
- Mentor new coop students, interns, and help onboard new team members to our product and development environment.

Technical Experience & Projects

Fresh   **May. 2019 – Aug. 2019**

- Design and implement web application for crowd-sourced grocery price sharing. Users are able to submit new deals, review and rate current deals, and save deals to personalized shopping list.
- Implemented in Meteor.js using React and Material UI and Atlas hosted MongoDB.
- Configured continuous deployment to Heroku.

HSBC RoboAdvisor Automated Fund Rebalancing   **Jan. 2019 – Apr. 2019**

- Design, document, and develop full stack web application for HSBC's proof-of-concept automated fund rebalancing system. Microservice-ready architecture interfacing internal HSBC Fund Management APIs.
- Designed and implement Java Springboot RESTful CRUD APIs for user fund preference management, fund rebalancing calculation and suggested fund transactions. Integration tests executed using TestNG framework.
- Designed and implemented Javascript + React frontend applying HSBC design elements and Material UI library.
- Configured Gitlab CICD for automated Google Cloud Platform deployments in multi-environment setup through Docker containerized build, testing and deployment.
- Received outstanding review from HSBC development team for project design and execution.

Roy the Traffic Cop   **Jan. 2018 – Apr. 2018**

- Designed and developed game in C++ using OpenGL to render sprites and complex meshes. Game AI uses minimax tree to provide difficulty and complexity for gameplay execution.
- Wrote custom GLSL vertex and pixel shaders to add special visual effects to game.

Project Lumo   **Hackathon (top 15), Sep. 2017**

- Built fully functional Python web-app game promoting mental health in youth on Django framework, deployed on Amazon AWS.

Education

B. Computer Science   University of British Columbia, Est. Aug. 2019

B. Science with Distinction   University of British Columbia, 2011-2015

- Integration of Molecular Genetics and Microbiology

Technical Skills

- Core languages: Java, Groovy, Javascript, Node.js, Bash, Python, HTML/CSS
- Git, CI/CD, Jenkins, Docker, Cloud Foundry, Google Cloud Platform, TestNG, Postgres, MongoDB, Splunk, AppDynamics, Rally, Jira