

Tammy Liu

programmer. designer.

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// skills

Scala	Java
C++	Python
JavaScript	PHP
HTML	CSS
Git	Play
MongoDB	ExpressJS
AngularJS	Node.js
Sketch	Illustrator
Photoshop	InDesign

// experience

National University of Singapore - research & teaching assistant sept 2016 - present

- created a course on Data Science focusing on Machine Learning
- collaborated with a team of 30 to create course content on API development with emphasis on industry practices

Hootsuite - backend developer

jan - apr 2016

- created a high performance Scala and Play microservice serving more than 8000 requests per second by re-architecting monolithic PHP code
- developed product health checks for a new microservice communication infrastructure with Consul

MetricWire - UI/UX designer & frontend developer

may - aug 2015

- designed and implemented UI/UX improvements with AngularJS, HTML, and CSS
- architected database for modular design and code sustainability with MongoDB

UW NanoRobotics Group - controls team lead

sept 2014 - present

- built controls GUI features to maneuver micro-robots with actuators and Python
- migrated legacy code base to a new C++ architecture to promote sustainable code

Tech Retreat - project manager

2015, 2016

- supervised and planned Hackathon & Learnathon for over 150 high school students
- coordinated event design, logistics, and judging with a team of 22 organizers

// achievements

1st internationally for Microassembly, Mobile Microrobotics challenge

2016

represented and competed with the UW NanoRobotics Group at the IEEE Conference for Robotics and Automation (ICRA)

Featured in an O'Reilly book for Microservices Architecture

2016

published [blog post](#) on Hootsuite's way of migrating from a monolith to microservices

// projects

Just Another Fairytale - platform game

2015 - present

story-based platformer in JavaScript where the selling point is in the characters

// education

University of Waterloo

2014 - 2019 (expected)

Candidate for Bachelors of Software Engineering

// interests

artificial intelligence, archery, gaming, dance