

# Tammy Liu

programmer. designer.

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## // skills

Scala	Java
C / C++	Python
JavaScript	PHP
HTML	CSS

Git, Sketch,  
Adobe Photoshop,  
Illustrator, InDesign

## // experience

**National University of Singapore** - research & teaching assistant sept 2016 - present  
created course content on API development with emphasis on workplace skills  
collaborated with a team of 30 to develop a Data Science & Machine Learning course

**UW NanoRobotics Group** - controls team lead sept 2014 - present  
built controls GUI features to maneuver micro-robots with actuators and Python  
promote sustainable code by migrating to a new C++ architecture

**Hootsuite** - backend developer jan - apr 2016  
re-architected monolithic PHP code to a high performance Scala and Play microservice  
developed product health checks for a new communication infrastructure with Consul

**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

**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

## // 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 C++ 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