

# Tammy Liu

programmer. designer.

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## // skills

Scala	Java
C++	Python
JavaScript	HTML/CSS

Git	Play
AngularJS	Node.js

Sketch	Illustrator
Photoshop	InDesign

## // experience

**National University of Singapore** – course developer      singapore, sept – dec 2016  
Python, Node.js

- developed course structure and preliminary content for “Machine Learning driven Data Science” with Python and Jupyter Notebook
- collaborated with a team of 30 to create “Connect Using APIs” course content on API development, with emphasis on industry practices using Node.js

**Hootsuite** – backend developer      vancouver, jan – apr 2016  
Scala, Play Framework

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

**MetricWire** – UI/UX designer & frontend developer      waterloo, may – aug 2015  
MEAN stack, Sketch

- designed and implemented UI/UX for a research participation incentive system and existing features using Sketch, AngularJS, and HTML/CSS
- architected database for modular design and code sustainability with MongoDB

## // projects

**UW NanoRobotics Group** – controls team lead      2014 – present  
Python, C++

- built controls GUI features to maneuver micro-robots with actuators and Python
- migrated legacy code base to a 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 for Microassembly, Mobile Microrobotics** international robot challenge      2016  
represented and competed with the UW NanoRobotics Group at the IEEE Conference for Robotics and Automation (ICRA)

**Technical blog post featured in an O'Reilly book** for Microservices Architecture      2016  
explained Hootsuite's practices of migrating from a monolith to microservices

## // education

**University of Waterloo**      2014 – 2019 (expected)  
candidate for Bachelor of Software Engineering (Cognitive Science Minor)

## // interests

studying machine learning and data science, olympic recurve archery at 18m, playing and creating story-driven games, painting fantasy landscapes