

# TIFFANY YU

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## EDUCATION

Carnegie Mellon University | Pittsburgh, PA | May 2021

3.4/4.0 GPA

Bachelor of Science, Computer Science

Machine Learning Concentration

Academic Dean's List | S19, F19

## SKILLS

Languages: Python, C, C++, Java, Matlab, Swift

Frameworks: Android Studio, Pytorch, Tensorflow, Firebase, Git, UNIX

## COURSEWORK

10703 | Deep Reinforcement Learning

17728 | Machine Learning and Sensing

15445 | Database Systems

16725 | Biomedical Imaging and Analysis

15462 | Computer Graphics

10418 | Machine Learning for Structured Data

15330 | Intro to Computer Security

16385 | Computer Vision

16384 | Robot Kinematics

10315 | Intro to Machine Learning

## EXPERIENCE

Uber ATG | Pittsburgh, PA

May – Aug 2020

Track Hardware: Software Engineering Intern

- Developed software that enabled track technicians to set robotic actors to trigger based on autonomous vehicle geolocation during testing.
- Shipped beta version of trigger to the test track and validated in real test scenarios.

Facebook | Menlo Park, CA

Public Connections: Software Engineering Intern

May – Aug 2019

- Created contextual profiles for all public page comments in Android.
- Generated junit tests and screenshot test using Mockito framework.
- Implemented logging and launched employee tests to understand user response.

CMU CHIMPS Lab | Pittsburgh, PA

Coconut IDE Plugin: Research Assistant

Jan 2019 – Jan 2020

- Expanded and tested Coconut annotations plugin for Android Studios IDE to manage data privacy by manipulating developer workflow.
- Incorporated annotations with ~30 Google Play Store apps to gauge plugin efficacy.
- Presented preliminary findings at CyLab Partners Conference 2019.

## PROJECTS

ML-Assisted Dead Reckoning | Pittsburgh, PA

Nov – Dec 2020

- In a team of four, developed E2E ML pipeline for vehicle position estimation from IMU data in GPS-poor environments.

Biomedical Imaging Final Project | Pittsburgh, PA

Apr – May 2020

- Applied segmentation and machine learning techniques on open-sourced and anonymized COVID-19 CT scans and x-rays to better detect pulmonary complications.

Robot Kinematics Capstone | Pittsburgh, PA

Nov – Dec 2018

- Programmed a 5-DOF robot arm to complete wire loop challenge by implementing inverse kinematics, forward kinematics, and trajectory control.

Facebook University: GetRecced | Menlo Park, CA

Jun – Aug 2018

- In a team of three, engineered an Android media recommendation app to connect users to movies, TV shows, and books based on like users' preferences.

## INVOLVEMENT

CMU Robotics Club | Pittsburgh, PA

Project Liaison (current), Vice President, Treasurer

Apr 2018 – Present

- Oversaw several efforts (mentorship program, Red Robot Hackathon) to bolster club membership and improve makerspace environment.

Robobuggy: Operations Lead, Electrical Team Member

Sep 2017 – Feb 2019

- Assisted development of electrical subsystems on buggy.
- Coordinated team through test runs under race-day conditions.