# Jiatao "JT" Lu

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## EDUCATION

**University of Southern California – Los Angeles, CA**     Aug. 2019 - 2021
Master of Science in Computer Science

**Flatiron School – Denver, CO**     Feb. 2020 – July 2020
Software Engineering - Full Stack Web Development

**University of Colorado Boulder – Boulder, CO**     May 2016-May 2018
Bachelor of Science in Mechanical Engineering, Minor in Japanese

**Calvin University – Grand Rapids, MI**     2013 - 2016

## EXPERIENCE

**Student, Flatiron School**     **Feb. 2020 – July 2020**
- 15 Week Intensive – Full Stack Web Development
- Frontend: JS fundamentals (ES6+), HTML5, CSS3, Component Pattern, React.js
- Backend: Ruby fundamentals, MVC pattern, Rails, SQL, ORMs, Active Record, Ruby on Rails

## PROJECT EXPERIENCE

**Teamfight Tactics Webpage – an auto-played chess game**     **July 2020**
- Built a website for Teamfight Tactics (TFT) as a class project with HTML5 and Vue.js as frontend and Ruby on Rails as backend
- Deployed various CSS3 affects like embedded video, hover, transition, transform and animation
- Website can be visited at mimictft.web.app/

**Lengeds of Runeterra Webpage – a digital collectible card game**     **June 2020**
- Built a website for Lengeds of Runeterra (LOR) as a class project with HTML5 and JavaScript as frontend and Ruby on Rails as backend
- Deployed various JavaScript functions like search, filter, add and remove cards, and update comments

**PinYouGou – an online shopping website (Chinese)**     **June 2020**
- Built a shopping website with main page, product page and register page with HTML5 as frontend
- Website can be visited at pyg-shopping-website.web.app/

**Puppy Finder – an app that matches you with your purr-fect friend**     **May 2020**
- Built an app that imported a puppy API and a location API
- Enabled this app to match a potential dog owner with a puppy based on location, puppy's personality with HTML5 and JavaScript as frontend and Ruby on Rails as backend

## WORK EXPERIENCE

**Optics Associate Engineer, Snapchat Inc. - Boulder, CO**                    June 2018-July 2019
- Establish automated test procedures with adjustable parameters for preceding tests via Python
  - accomplish various test scenarios by changing features like light fixtures and other camera parameters via Bash scripts
- Analyze Ambient Light Sensor (ALS) data with Matlab

**Undergraduate Research Assistant, RadiCold Research Lab - Boulder, CO**     May 2017-June 2018
---- *Funded by U.S. Department of Energy*
- Contributed to weather data analysis and cooling model generation via Python and Matlab
- Modeled the RadiCold system cooling simulation and performance under varying operating conditions in Python and Matlab
- Designed and developed Radiative Cooled-Cold Storage (RadiCold) system with water panels, radioactive cooling film, radioactive cooling modules and customized 3D printing components
- Published paper as a contribution author
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**Design Engineer, Milwaukee Bucks NBA Team - Boulder, CO**                 Aug. 2017- May 2018
- Developed an effective and safe ankle proprioceptive training device to be used by NBA athletes to measure and increase stability while standing on an unstable platform
- Modified an existing sensor to collaborate with iPad
- Wrote an iOS application for player usage, data collection, analysis and storage on cloud server and was approved by Milwaukee Bucks
- Added functions in the application such as players' information input, training modes, training history and report generation
- Tested and debugged the sensor and iOS application due to sensor accuracy and real-time data latency
- Integrated this device with an iPad for data collection, analysis and cloud storage
- Took the lead in prototype development and quality control
- Identified risks associated with prototype fabrication and assembly

**Research Assistant, Toyota - Grand Rapids, MI**                            May 2016-Sept. 2016
---- *Calvin College and TOYOTA cooperation project*
- Designed a wind tunnel test section which mimicked the cross section of the testing automobile
- Collected and analyzed wind velocity and wind noise data from wind tunnel tests via Python and Matlab
- Analyzed wind noise data collected from road tests on test track and on interstate highway for comparison of various driving conditions