

# Haoran (Peter) Yu

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## EDUCATION

### Northeastern University - Silicon Valley Campus

Candidate for Master of Science in Computer Science GPA 4.0/4.0

San Jose, CA, US

01/2020 - 05/2022

Courses: Object Oriented Design (Java), Software Engineering (Java), Web Development, Databases, Algorithm.

### Wuhan University

Bachelor in Architecture (Hons) Merit-based Scholarship

Wuhan, CN

09/2014 - 06/2019

## SKILLS

- Languages: Java, C#, Python, JavaScriptES6, TypeScript, MySQL, C, HTML5/CSS, exposed to C++, Golang, Ruby.
- Frameworks & Environments: Angular, SpringBoot, Node.js, Express, Flask, React, Bootstrap, Babel, Redux, AJAX, Restful APIs, MySQL, MongoDB, familiar with CI/CD process in development.
- Tools: Android Studio, Git, Google-Maps-API, Paypal-Rest-SDK, AWS-CLI.

## EXPERIENCE

### Northeastern University - Silicon Valley Campus

Graduate Teaching Assistant for the course **Algorithm** under Anurag Bhardwaj

San Jose, CA, US

08/2020 - Present

- Designed and led mini-lectures on various algorithm topics including Divide & Conquer, DFS, BFS, Graph Theory, and Dynamic Programming etc, which received strong positive feedback from a class of 40 students.

### Wuhan University Alumni Association of Northern California

Full Stack Web Engineer, URL: [wuhanuniversity.org](http://wuhanuniversity.org)

San Jose, CA, US

01/2020 - 04/2020

- **Increased** server query response time by **15%** by **restructuring the API** with **Python** and **Flask**. and built the donation function with **Paypal-REST-SDK**. ahead of the schedule by one week, after the COVID19 outbreak in Wuhan.
- Optimized the web page layout with **React** and make it responsive to different devices with **Bootstrap**.

### China Architecture Design & Research Group

Intern Computational Designer

Beijing, CN

06/2018 - 09/2018

- **Saved** the construction cost by **20%** by optimizing the tile tessellation pattern on large span curved roof with **Python** and Grasshopper (a visual programming language).
- Designed the form of large span curved roof of WenAn Cultural Complex Center with Self-Adaptive Differential Algorithm with **C#** & Grasshopper.

## PROJECTS

### Doodos - Graffiti Hub for Street Artist & Fans

Group Project (role: backend)

San Jose, CA, US

04/2020 - 07/2020

- Built a social hub for graffiti fans to write posts, like & comment on other people's, buy artworks and see their locations.
- Developed the user interface with **React.js**, **Webpack** and developed **reusable UI component** like dynamic forms as **NPM modules**.
- Used **Node.js**, **Express** to construct the web frame, **Mongoose & MongoDB** to build a database on **AWS** cloud, achieved user authentication with **Express-validator** and **JWT Web token**, encrypted user information with **Bcrypt**.
- Built an online store and built its payment system with **Paypal-REST-SDK** to handle users' payment and orders.
- Rendered maps of artworks' locations with markers & info windows with **Google Maps API** & **EJS** from the server-side.

### eCommerce Retail Platform

Individual Project

San Jose, CA, US

01/2020 - 03/2020

- Designed Database tables with **MySQL Workbench**, built JPA Entities with **Java & SpringBoot** created the backend **REST APIs** with Spring Data JPA Repositories & Spring Data REST.
- Realized functions with **Angular** which include pagination, search by keyword, search by category, checkout validation, and also components including product, shopping cart, and checkout form.
- Applied **Bootstrap**, **CSS**, created **TypeScript components** on HTML templates to format the front-end User Interface.

### Uber Clone Mobile App

Individual Project

Beijing, CN

08/2019 - 11/2019

- Developed an Android application based on Uber which provides an online connection between taxi drivers and riders.
- Rendered user interface on **Google Maps API** & **Google Places API** from the server side to share location and represent real time road traffic information, Created and launched server instance on **AWS EC2**.
- Visualized user usage data, bills with **HelloCharts** libraries, and pages switch function with **TabWidget**.