

# LUJIE (SUE) ZHAO

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## EDUCATION

New York University

Brooklyn, NY

B.S. in Computer Science, Minors in Mathematics and Finance

Sep. 2018 – Dec 2021

GPA: 3.77/4.00

## EXPERIENCES

Google Inc., Google Cloud Core Infrastructure

Sunnyvale, CA (Virtual)

STEP (Student Training in Engineering Program) Intern, CDPush Team

June. 2020 – Sep. 2020

- ♦ **Implementation of Internal Pages:** Recreated pages of CDPush for the current system for directory, one-push, and all pushes.
- ♦ **Visualization of Dynamic Configuration Pushes:** Built visual elements for the internal web UI. Shown the timeline of all pushes and the relationship between the current and previous pushes; helped users understand the process of the push and estimated the completion time.
- ♦ Front-end development using **TypeScript** with **Angular** framework, **D3.JS**, **Sass** and **Protocol Buffers**.

New York University

Brooklyn, NY

Software Engineering Intern

Oct. 2020 – *Present*

- ♦ **Deputy of Website Development Committee** for General Engineering Department.
- ♦ Design, build and launch new [course website](#) for EG-UY 1003 Introduction to Engineering and Design from the ground up. Implement thorough documentation and maintain the website for 1000+ daily active users.
- ♦ Full-stack development using **JavaScript** with **React** framework, **Node.JS**, **Bootstrap** and **MySQL**.

New York University, AI4CE Lab

Brooklyn, NY

Research Intern, Large Scale Mobile Robot 3D Printing with Prof Feng

June 2019 – Aug. 2019

- ♦ **Revit Modeling and Gazebo Simulation:** Modified two TurtleBots and modeled them accordingly in Revit. Built Gazebo simulated environment and collected training data (~7500 images) for future machine learning process.
- ♦ **Image Processing using OpenCV:** Developed **Python** algorithms for image detection and path planning. Enabled single mobile robot to print preset graphs in 2D.
- ♦ **ROS (Robot Operating System) Implementation:** Implemented ROS to the robots with **C++**. Calibrated them to run successfully and printed a floorplan on a wooden board (3m x 6m).

Competitive Programming Club

Brooklyn, NY

Member

Sep. 2019 - *Present*

- ♦ Contribute in weekly contests using **C++** & **Python** and prepare for annual ACM-ICPC competition.

## HONORS & AWARDS

VEX U World Championship

Louisville, KY

- ♦ **2019 VEX U World Champion:** Team ranked **first** out of 77 teams from 13 different countries and regions.
- ♦ **2018 VEX U World Finalists:** Team ranked **second** out of 83 teams from 13 different countries and regions.

## SKILLS

- ♦ Programming Languages: C++, Python, Java, JavaScript, TypeScript, Node.JS, C, SQL, HTML, CSS
- ♦ Softwares & Tools: Git, Microsoft Office, Tableau, Final Cut Pro, Adobe Photoshop, Adobe Illustrator