

# Ray Hung

COMPUTER SCIENCE JUNIOR

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## Education

### Georgia Institute of Technology

COMPUTER SCIENCE (JUNIOR) - GPA N/A

Atlanta, Georgia

Aug 2020 - May 2022

**Focus:** Information Internetworks, Modeling and Simulation

### De Anza College

COMPUTER SCIENCE (SOPHOMORE) - GPA 4.00/4.00 (DEAN'S LIST)

Cupertino, California

Jan 2019 - Jun 2020

**Courses:** C++/Java programming, SQL, Data Structures, Assembly Language, Network Security, Linear Algebra, Differential Equations

### National Taiwan University

CHEMICAL ENGINEERING (FRESHMAN) - GPA 4.26/4.30 (TOP 1%)

Taipei, Taiwan

Sep 2017 - Jun 2018

**Courses:** Calculus, General Physics & Lab, General Chemistry & Lab, Mass & Energy Balance, Engineering Graphics

## Work Experience

### EyeLevel.ai

DATA ENGINEER INTERN

San Francisco, California

Jul 2019 - Sep 2019

- Used Python, Node.js, Postgres SQL to build a chatbot conversation analyzer that can fetch conversation data from Facebook Graph API to analyze conversations and provide statistical results.
- Evaluated statistical results to obtain valuable insights into drop-offs, inconsistency, and dead-ends in conversations between chatbots and users.

### YektaSonics Inc

SOFTWARE ENGINEER INTERN

Los Gatos, California

Aug 2019 - Sep 2019

- Optimized C++/Python/Arduino beam-former calibration software and oscilloscope communication, making it 10x faster.
- Integrated small functional software components into a high-level human-machine interface software.
- Wrote shell scripts to automate beam-former software testing.

## Extracurricular/Volunteer Experience

### Silicon Valley Career Women

PRODUCT ENGINEER INTERN

Sunnyvale, California

Oct 2019 - Present

- Used Final Cut Pro to edit videos for "Women Leadership Enhancement" video program.
- Developed and enhanced video and audio products.

### De Anza Computer Science Department

TEACHING ASSISTANT

Cupertino, California

Sep 2019 - Jun 2020

- In-class TA for Intermediate and Beginning Programming Methodologies in C++.
- Took notes during classes and gathered extra learning resources for students.
- Resolved students' problems during classes and from their homework.
- Designed surveys and collected feedback, identified opportunities for improvement and executed effective strategies to address deficiencies.

### De Anza Flea Market

FLEA MARKET ASSISTANT

Cupertino, California

May 2019 - Jun 2020

- Provided gate-keeping support, verified event tickets and vendor information, responded to inquiries about space location, and assisted in the flea market operation.

### National Aeronautics and Space Administration (NASA)

STUDENT PRINCIPAL INVESTIGATOR - NASA PROPOSAL WRITING & EVALUATION EXPERIENCE ACADEMY

Remote/Online

Sep 2019 - Nov 2019

- Led a team of 7 college STEM major students to design and write a 7-page proposal about an "Advanced Virtual Reality Exercise System" that helps astronauts achieve 100%+ prescribed exercise completion rate.
- Our proposal was one of the top 4 rated among around 15 proposals.
- Learned the best practice of writing professional proposals and proposal evaluation procedures from NASA.

### Competitive Programming Club @ De Anza College

CO-PRESIDENT

Cupertino, California

May 2019 - Jan 2020

- Won the 14th place out of 86 teams in 2019 ACM International Collegiate Programming Contest (ICPC) Pacific Northwest Division 2.
- Hosted weekly training sessions to help members hone their algorithm, data structure, and problem-solving skills.

## National Aeronautics and Space Administration (NASA)

Remote/Online

NASA LUCY STUDENT PIPELINE ACCELERATOR AND COMPETENCY ENABLER (L'SPACE) MISSION CONCEPT ACADEMY

May 2019 - Aug 2019

- Remotely cooperated with STEM major students to design a mission concept of characterizing a hydrocarbon sea (mare) on Titan, the largest moon of Saturn, and write a 35-page Preliminary Design Review (PDR).
- Used JMARS (a Planetary GIS Software) to find the best landing site for our probe.
- Learned mission procedures and protocols from NASA engineers and scientists.

## Global Initiatives Symposium (GIS) in Taiwan at National Taiwan University (NTU)

Taipei, Taiwan

STUDENT DELEGATE

Jul 2018

- Collaborated with team members to propose an AI system that mitigated overcrowding in emergency rooms by optimizing triage and providing medical referrals suggestion.
- Listened to inspiring speeches given by professionals and industry experts from around the world about AI, the platform economy, personalized learning, and micro power.

## Taiwan Semiconductor Manufacturing Company (TSMC)

Hsinchu, Taiwan

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY ELITE CAMP

Jul 2018

- Learned the cutting edge development and application of semiconductors and visited the TSMC Museum of Innovation.
- Interacted with employees at TSMC and professors working with TSMC.

## Association of Taiwan University Alumni in MACAU

Shanghai, China

STUDENT LEADER DELEGATION OF ATUAM

Jul 2018

- Proposed holding social activities in universities to stimulate social atmosphere for students to build new connections for an entrepreneurship competition.
- Visited Shanghai Jiao Tong University, the T-MAKERS incubator, and a cultural and creative park.

## Biology Club, Taipei Municipal Jianguo High School

Taipei, Taiwan

PRESIDENT

Sep 2015 - Jun 2016

- Organized and ran a six-day biology summer camp consisting of lectures, visits, and activities. Our summer camp attracted around 120 junior high school students and was nominated for high school creative proposal competition held by the Tang Prize, receiving a subsidy of US\$3300.
- Managed more than 100 club members. More than 50 biology classes were offered by my club every semester.

## Volunteer Experience

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### Soka Gakkai International - USA

Santa Clara, California

GAJOKAI (RECEPTIONIST)

Mar 2019 - Present

- Warmly welcomed and served every guest and member who enter the Buddhist Center.
- Informed visitors by answering or referring inquiries.
- Maintained security by following procedures, monitoring the center, and logging visitor information.

### Tri-Service General Hospital Songshan Branch

Taipei, Taiwan

EMERGENCY ROOM VOLUNTEER ORDERLY

Sep 2017 - Sep 2018

- Delivered blood, medical specimens to the medical laboratory.
- Guided patients to X-Ray rooms, CT scan rooms, and wards.
- Collected medicine on patients' behalf at the pharmacy.
- Provided any assistance to emergency room staff when necessary.

## Awards & Honors

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**U.S. National Top 30** - 2019 American Mathematical Association of Two-Year Colleges (AMATYC) Math Competition

**Dean's List** - For all quarters at De Anza College

**Presidential Award (Top 5% in class)** - For both semesters at National Taiwan University

## Skills

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**Programming Languages & Frameworks:** Python, C++, Java, javascript/typescript, React.js, HTML, FireBase, SQL, x86 Assembly (MASM)

**OS & Tools:** Mac OS, Windows, git, IntelliJ IDEA, Visual Studio Code, Visual Studio, Final Cut Pro

**Languages:** Fluent in English and Mandarin, conversational in Taiwanese