

## Caleb Ren

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### EDUCATION

#### HARVARD UNIVERSITY

A.B., Statistics (Data Science track), Secondary in Computer Science

Cambridge, MA

2017 – 2021

GPA: 3.78/4.0; Relevant Coursework: Multivariable Calculus and Linear Algebra; Intermediate Economics (Advanced); Introduction to Probability; Introduction to Algorithms (MIT); Introduction to Computer Science; Language, Structure, and Cognition

#### BELLEVUE HIGH SCHOOL

GPA: 3.97/4.0; ACT: 36/36

Bellevue, WA

2013 – 2017

Honors: National Merit Scholarship Finalist, National AP Scholar, 2017 Outstanding Science Scholar Book Award, U.S. Presidential Scholar Semifinalist, Silver Medal DECA ICDC Sports & Entertainment Business Operations Research

### TECHNICAL SKILLS

**Productivity and Creativity:** Excel, PowerPoint, Word; Adobe Photoshop, InDesign, Illustrator (adv.)

**Programming Languages:** Python, R, MATLAB SQL; Java, C, JavaScript, HTML/CSS, SQL, Google Apps Script

### WORK EXPERIENCE

#### Trendy.com

*Technical Consultant*

Seattle, WA

Dec 2018 – Present

- Advised on framework for an interactive art exhibition for a major New York art gallery involving C++, JavaScript, and SQL
- Ported medical education software including an MRI photo recognition trainer from Flash (ActionScript) to HTML5 (JS/jQuery)
- Automated data pulls from Google Sheets to MIME outputs using Google Apps Script

#### Tsinghua University – School of Environment

*Harvard-China Project Research Assistant*

Beijing, China

June 2018 – Aug 2018

- Conducted research under Professor Lu Xi into solar energy curtailment in Beijing using GLAS and IceSAT data
- Used ArcGIS and MATLAB to model total solar energy while factoring in urban building shadowing effects
- Created actionable recommendations to urban planners regarding the installment of distributed rooftop photovoltaic cells

### LEADERSHIP

#### Harvard Association for U.S.-China Relations (HAUSCR)

*Director of Technology and Conference Director*

Cambridge, MA

Sep 2017 – Present

- Led a team to improve operational efficiency for a \$1MM non-profit by developing custom tools and technologies
- Directed a 2-week liberal arts exploration conference for 150+ students as nominated by the top 100 high schools in China
- Developed advanced Excel workshops on custom functions and scripting, leading to over 100+ man-hour gain in efficiency
- Developed a research curriculum for 1300+ students across 3 cities at Harvard's largest summer program in Asia

#### Harvard College Consulting Group (HCCG)

*Case Team Leader*

Cambridge, MA

Feb 2018 – Present

- Worked in 6-person team to develop an entry plan for new data storage and servicing offerings for a Fortune 500 tech company
- Segmented the total addressable market, barriers to entry, and client competencies/synergies to evaluate market entry strategies
- Developed actionable recommendations for clients with combined market capitalization of \$4.5T+ since 2016

### PROJECTS

#### HAUSCR Slides

June 2018 – Aug 2018

- Built an intuitive Google Slides template used in both internal- and external-oriented HAUSCR communication
- Employed Google Apps Script to build name/date autofill and bullet reorganization features to expedite slide creation
- Designed a dynamic Table of Contents slide that predicts subtitle information based on the rest of the user-generated slide deck

#### HAUSCR Conference Websites

Oct 2018

- Streamlined the conference schedule creation process, increasing efficiency by 20+ man-hours compared to prior years
- Designed a portal displaying personalized conference schedules and info for 300+ students using Jekyll, SQL, and JavaScript
- Automated HTTP GET requests to dynamically generate student websites, allowing for crucial last-minute changes to student schedules and averting large-scale conference crises

#### “That’s A Mood”

Oct 2018 – Dec 2018

- Featured in Harvard John A. Paulson School of Engineering and Applied Science’s quarterly newsletter as a standout project
- Applied color psychology principles using an LED array to visualize Harvard College’s on-campus mental health
- Engineered and implemented a full stack application involving Google Apps Script, JS/jQuery, SQL, Arduino C, HTML (Jekyll), and Python for website creation, database management, and hardware