

Caleb Ren

calebaren@gmail.com • (206) 849-5804

EDUCATION

HARVARD UNIVERSITY

A.B., Statistics, Secondary in Computer Science

GPA: 3.67/4.00; Relevant Courses: Big Data & Machine Learning; Dimension Reduction; Functional Programming; Linear Models

Cambridge, MA

May 2021

BELLEVUE HIGH SCHOOL

GPA: 3.97/4.0; ACT: 36/36

Bellevue, WA

May 2017

TECHNICAL SKILLS

Programming Languages: R, Python, MATLAB, Java, C, JavaScript, HTML/CSS, SQL, OCaml

Productivity and Creativity: Adobe Photoshop, Lightroom, InDesign, Illustrator; Excel (adv.)

EXPERIENCE

EF Education First

EF360 Management Intern (Data Science)

Boston, MA

May 2019 – Present

- Optimize customer journey and track drop-off points in the purchase funnel by conducting A/B testing using SiteSpect
- Develop predictive models for hotel operating costs, customer return rates, and internal metrics using both parametric and non-parametric methods (PCA, LASSO/Ridge regression, tree classification methods)
- Generate actionable recommendations from data analysis to reduce hotel operating costs by \$100K+ per year

Trendy.com

Technical Consultant

Seattle, WA

Dec 2018 – Feb 2019

- Oversaw technical design for an interactive art exhibition for a major New York art gallery involving C++ and JavaScript
- Ported medical education software including an MRI photo recognition trainer for use by 1,000+ medical students

Tsinghua University – School of Environment

Harvard-China Project Research Assistant

Beijing, China

June 2018 – Aug 2018

- Delivered actionable recommendations to urban planners to increase rooftop photovoltaic cell collection efficiency by 20%
- Modeled solar energy potential in Beijing using ArcGIS, GLAS, and IceSAT data, factoring in urban canopy effects

LEADERSHIP

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

President and Director of Technology

Cambridge, MA

Sep 2017 – Present

- Lead 50-member \$1MM non-profit in formulating long-term strategic plans, developing software tools, and spearheading organization-wide projects to improve efficiency
- Direct 250 US and Chinese volunteers to provide educational exposure for 10K+ high schoolers across the 4 largest Harvard-run conferences and research competitions in Asia, accounting for 1/3 of annual Harvard acceptances from mainland China
- Design new global marketing across domestic and international social media to boost annual student registration by 120%
- Lead 7-person team to create and market a video series developing academic research skills over a period of 6 days for an audience of 1,500+ Chinese high schoolers

Harvard College Consulting Group (HCCG)

Case Team Leader

Cambridge, MA

Feb 2018 – Present

- Lead 6-person team to develop entry plans for new data storage and servicing offerings for a Fortune 500 tech company
- Advise market entry for a Global 500 company by analyzing total available market, barriers to entry, and client competencies
- Conduct focus groups and market analysis to determine product offerings, branding strategies, and value propositions for clients with a combined market capitalization of \$5.2T+ since 2016

PROJECTS

CleanSlate – Code for Boston

July 2019 – Present

- Worked within a 15-person team *pro bono* to develop a criminal-record expungement tool for Citizens for Juvenile Justice
- Developed a text processing script to parse 11,000+ PDFs, supplanting manual data entry task

my.hauscr.org

Oct 2018 – Present

- Deployed personalized conference portals for 300+ students to ease logistics, reducing complaints by 70%
- Incorporated Google Sheet API to dynamically generate student schedules, allowing for crucial last-minute changes to conference schedules and class schedules that were impossible in previous years

“That’s A Mood”

Oct 2018 – Dec 2018

- Led team in implementing website creation, database management, and embedded systems programming for a public art installation targeting student mental health representation on campus
- Featured in Harvard John A. Paulson School of Engineering and Applied Science’s quarterly newsletter as a standout project