Caleb Ren

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EDUCATION

HARVARD UNIVERSITY Cambridge, MA
A.B., Statistics, Secondary in Computer Science May 2021
GPA: 3.7/4.0; Relevant Courses: Data Structures & Algorithms; Big Data & Machine Learning; Applied Linear Algebra & Big Data; Generalized Linear Models; Stochastic Processes; Dimension Reduction; Corporate Finance Accounting

BELLEVUE HIGH SCHOOL Bellevue, WA
GPA: 3.97/4.0; ACT: 36/36 May 2017

TECHNICAL SKILLS

Programming Languages: Python, SQL, Java, JavaScript, MATLAB, R, C/C++, OCaml
Frameworks and Libraries: React, Node.js, Express, D3.js
Productivity and Creativity: Adobe Photoshop, Lightroom, InDesign, Illustrator, Excel (adv.)

EXPERIENCE

Goldman Sachs New York, NY
Software Engineering Intern May 2020 – Present
- Build graphical user interface for internal users to identify data quality errors in files using Java
- Placed 3rd in company-wide coding competition for summer interns based on speed and correctness of solution

EF Education First Boston, MA
EF360 Management Intern (Data Science) May 2019 – August 2019
- Tracked customer demand across 30+ EF Ultimate Break tour products to identify trends in customer satisfaction and operating costs as part of the core market development team
- Developed inferential models for hotel costs, customer return rates, and other internal metrics using ML techniques (PCA, LASSO/Ridge regression, and tree classification methods, etc.)
- Generated actionable recommendations from data analyses to reduce operating costs across 12+ hotel properties

LEADERSHIP

Harvard College Association for U.S.-China Relations (HAUSCR) Cambridge, MA
President and Director of Technology Sep 2017 – Present
- Lead 50-member $1MM non-profit in shaping long-term timelines and objectives, spearheading organization-wide projects to improve efficiency, and solving day-to-day issues
- Adapt 3 global conference products to online format for COVID-19 pandemic, reaching a total attendance of 15K+ students
- Direct 250+ US and Chinese volunteers to provide education resources for 10K+ high schoolers across the 4 largest Harvard-run conferences and research competitions in Asia, driving 30% of annual Harvard acceptances from mainland China

Harvard College Consulting Group Cambridge, MA
Case Team Leader Feb 2018 – May 2019
- Led 6-person team to develop entry plans for new data storage and servicing offerings for a Fortune 500 tech company
- Advised market entry for clients by analyzing total available market, barriers to entry, and client competencies
- Conducted focus groups and market analyses to determine product offerings, branding strategies, and value propositions for clients with a combined market capitalization of $5.2T+ since 2016

PROJECTS

Project Lead – Harvard College Data Analytics Group Mar 2020 – May 2020
- Led 5-person data analysis team during the COVI-19 global pandemic to model and visualize epidemiological data for the City of Miami Gardens
- Designed and rolled out information campaigns to increase COVID-19 testing access for communities of color

"Spherelets" – Dimension Reduction Paper Oct 2019 – Dec 2019
- Conducted research on the theory and applications of sphere-based PCA-derived statistical learning techniques (spherelets)
- Extended spherelets to denoise real-world test data, outcompeting state-of-the-art dimension reduction techniques

"That's A Mood" – CS50 Final Project Oct 2018 – Dec 2018
- Implemented website creation, database management, and embedded systems programming for a public art installation to address student mental health on campus
- Featured in John A. Paulson School of Engineering and Applied Science's quarterly newsletter as a standout CS50 project