Brian Seo

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EDUCATION:

Princeton University: *May 2027*
Bachelor of Science in Engineering: *Computer Science* | **GPA:** 3.51
- **Relevant Coursework:** Data Structures and Algorithms; Introduction to Programming Systems; Electricity, Magnetism, and Photonics; Linear Algebra; Physics I: Mechanics; Probability and Stochastics System; Multivariable Calc.; Intro to Stats.

Los Angeles Senior High School: *June 2023*
- **Weighted GPA:** 4.25 | **Unweighted GPA:** 4.00 | **Class Rank:** 1 / 196
- **Extracurriculars:** Mathematics, Engineering, Science, Achievement (MESA), Salvadoran-American Leadership and Educational Funds (SALEF), Cybersecurity Cisco, First Tech Challenge Robotics Club, Academic Decathlon, Peer Counseling

WORK EXPERIENCE:

Gractor - *Edge AI Research Intern;* Jamsil, South Korea *Jun 2024 - Present*
- Researched about the application of Edge AI in IoT (Internet of Things) Technology to prevent inter-floor noises within South Korea and utilized Convolutional Neural Networks (CNN) to perform audio classification, ultimately writing a research thesis

Prodigy Tutorial Program - *Coding Instructor;* Virtual *Apr 2023 - Present*
- Facilitated engaging and virtual learning experiences, empowering students to build fundamental approaches to programming and unleashing creativity through interactive projects in Python and Scratch, teaching for 70+ hours.
- Developed and implemented a comprehensive, innovative Python curriculum and syllabus, meticulously designed to empower students' critical thinking skills and practical application of programming in real-life scenarios.

Matriculate - *Advising Fellow;* Princeton, NJ *Nov 2023 - Present*
- Counseled high school fellows weekly, offering personalized guidance through the college application process, covering strategies for college selection, navigating applications and financial aid, and preparing for transition to higher education.

Mathematics, Engineering, Science, Achievement - *President/Vice-President;* Los Angeles, CA *Aug 2019 - June 2023*
- Facilitated social events and actively communicated with the school's vice principal to manage the club funds and fund raise for competitions, raising over $5000 for the club. Through active outreach, we ultimately increased the member count by 500%.
- Participated in and organized 30+ members into groups for the JPL competition, International Bridge Competition, and the official MESA competition, conducting weekly meetings and individual communications.

Robotics: First Tech Challenge - *President/Programming Chair;* Los Angeles, CA *Aug 2021 - June 2023*
- Instructed and expertly guided the programming committee utilizing On-bot Java as the head programming chair, communicating with the drivers team and strategically formulating plans, specifically for REV Robotics applications.
- Organized new members into programming, driving, and outreach teams by leading/organizing weekly meetings over 8 weeks.

Salvadoran-American Leadership and Educational Funds - *Data Analyst Intern*; Los Angeles, CA *Mar 2021 - Oct 2021*
- Thoroughly researched and systematically tracked the contact information and available resources of 100+ community service centers in Google Sheets, such as food and shelter suppliers to reach out and advocate for homeless people.
- Arranged professional calls communications with NGOs to seek additional assistance of supplies and funds for SALEF

PROJECTS:

Seam Carving (Java Algorithm Development):
- Created an image resizing algorithm calculating the minimum-energy seam through the quantified energy of each image pixel

K-D Tree Implementation/Analysis (Java Data Structure Advancement):
- Utilized 2-d trees to create a symbol-table data type and efficiently perform nearest-neighbor and range search w/ 2-d points

LEADERSHIP:

Salvadoran-American Leadership and Educational Funds - *Secretary/Vice-President* *Jan 2021 - June 2023*
- Co-established the club at school to support the Salvadoran-American community within campus, leading weekly meetings and raising over $1000 to provide scholarships to excelling Salvadoran-American minorities.

Model United Nations at Korean American Coalition - *Delegate* *Aug 2018 - Apr 2020*
- Participated in nation/worldwide debates as a model delegate of a country, preparing position papers and speeches to explain the political stance on various issues, such as the ISIS crisis, ILO, WHO, UNHRC, and 1st DISEC at UCLA & Berkeley.

SKILLS:

Languages: Korean, Spanish, Chinese, English | **Programming Languages:** Java, C/C++, Python,R | **Developer Tools:** MATLAB, Overleaf
Test Scores: SAT II Korean - 800/800, TOPIK I (Korean) - 200/200, HSK Level 4 - Pass | **Interests:** Data Science, Finance, Teaching
Certificates: HarvardX - Statistics and R (Credential: courses.edx.org/certificates/38e846d101dd4898a9a932c4b05f9cb0)