Beom Jin Lee

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EDUCATION

University of California, Berkeley — Berkeley, CA
B.A., Intended Computer Science and Applied Mathematics — *Aug. 2017 – May. 2021 (Expected)*
- **Relevant Coursework**: CS61A: Structure and Interpretation of Computer Programs (Python, Scheme, SQL), EE16A: Designing Information Devices and Systems (NumPy, Jupyter Notebook, Circuits), MATH 1B: Calculus

Overseas Family School — Singapore
IB Diploma; GPA: 4.0 — *Aug. 2013 – May. 2017*
- **Relevant Coursework**: IB Higher Level Mathematics, IB Higher Level Physics, IB Higher Level Chemistry
- **Club Activities**: Founded Applied Engineering Club, with the goal of participating and winning awards in Google Science Fair, and Debate Club, which runs weekly meetings with techniques and mock debates with the goal of winning debate competitions. Applied Engineering Club and Debate Club has both seen over 500% growth. Further served as Presidents of MUN, Advanced Coding Club and Peer Tutoring Club

EXPERIENCE

Pioneers in Engineering — Berkeley, CA
Front-end Developer — *Aug. 2017 - Present*
- **Shepherd Team**: Building a scoreboard for the Robotics Competition from scratch, in the form of a static website. Includes automated timer, automated bidding system with dedicated timer, and scoring system
- **WebDev Team**: Fixed bugs in link references in Pioneers in Engineering website using Jekyll, and built the sitemap for the website using HTML, SCSS and Bootstrap

Korean-American Scientists and Engineers' Association (KSEA) — Berkeley, CA
Researcher — *Aug. 2017 - Present*
- **Research on Mean-Reversion**: Presented a summary of mean-reversion and algorithmic trading at KSEA
- **Algorithm Building**: Building an effective algorithm using mean-reversion. Algorithm incorporated Augmented Dickey-Fuller Test to determine mean-reverting portfolio and the Johansen Test for co-integration values. Backtesting currently gives a 190% positive return in a ten-year period (compared to benchmark return of 108%)

People's Test Preparation Service — Berkeley, CA
Teacher — *Aug. 2017 - Present*
- **Teaching**: Taught SAT Mathematics to over 50 students from underprivileged societies and created new resources

Model United Nations — Singapore
President of International Court of Justice and Chair — *Aug. 2013 - May. 2017*
- **Committee Management**: Managed 6 different committees on 5 different MUN conferences as a chair (MUNOFS IX, MUNOFS VIII, MUNOFS VII, UWCMUN, MY-MUNOFS VI, MY-MUNOFS VII), and was responsible for smooth debate for over 100 delegates in each committee
- **Training**: Responsible for training delegates from Overseas Family School to various conferences. Ran weekly mock conferences and provided individual feedback

AWARDS AND PRESENTATIONS

- **United Kingdom Mathematics Challenge (UK Equivalent of AMC12)**: Best in School, Best in Year, Gold (Top 10%), Qualified for British Mathematics Olympiad (Top 500)

- **United Kingdom Mathematics Challenge (UK Equivalent of AMC10)**: Best in School, Gold (Top 10%), Qualified for Intermediate Mathematics Olympiad (Top 500) and Won Merit Award (Top 100)

- **TEDx**: Presented on "Differentiating and Integrating Your Skills to the Next Level" at HCIS on Apr. 2016

TECHNICAL SKILLS

- **Programming Languages**: Python (NumPy, Scikit-learn, Pandas), C, Java, HTML/CSS (SCSS), Javascript (Bootstrap), Jekyll, SQL

- **Languages**: English (Native), Korean (Native), Chinese (Fluent, HSK Level 5)