

# Devan Velji

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, SAN DIEGO

San Diego, CA

*B.S. Mathematics & Economics, Minor: Marine Sciences / Provost Honors*

Expected Jun 2026

Coursework: Micro/Macroeconomics, Econometrics, Financial Investments, Market Design, Economic Development

Probability, Stochastic Processes, Combinatorics, Linear Algebra, Numerical Analysis for Partial Differential Equations

### UNIVERSITY COLLEGE LONDON

London, UK

*Study Abroad Program*

Jun 2023 - Aug 2023

Coursework: Mathematics for Economists, Data Science & Big Data Analytics

## PROFESSIONAL EXPERIENCE

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### TEQUILA FORTALEZA

San Diego, CA

*Business Operations & Finance Intern*

Aug 2024 - Present

- Planned and executed 3 quarterly retreats to Tequila, Mexico, hosting  $\leq 400$  total attendees, to showcase distillery operations and strengthen relationships with distribution and industry partners as a primary marketing initiative
- Automated Excel report creation for sales and marketing teams using Python and VBA, saving  $\leq 15$  hours per week
- Overhauled and automated operational workflows by introducing an inventory allocation tracking system, reducing manual errors by 85%, cutting processing time by  $\leq 5$  hours per week, and enhancing inter-management communication

### UCSD DEPARTMENT OF ECONOMICS

San Diego, CA

*Research Assistant: Developmental Economics*

Sept 2023 - Present

- Quantified the casual relationship between prenatal care accessibility and newborn health outcomes using econometric models, discovering that increased proximity reduced infant mortality rates by 15% in rural communities
- Developed a novel database integrating 22 Sub-Saharan African countries' Demographic and Health Survey data with historical rainfall data and geographic proximity measures to hospitals and maternity wards
- Constructed regression models using R and Python; improved prediction accuracy for newborn health outcomes by 20% focusing on prenatal care accessibility

*Research Assistant: Market Design*

Sept 2024 – Jan 2025

- Investigated the application of trading algorithms as an aftermarket improvement system for student course allocation
- Designed a unique version of the Top-Trading Cycles algorithm that ensures strategy-proofness while also preserving student priorities to maintain Pareto optimality for all participants in the system
- Modeled algorithm implementation to project the student body would save an average of 3 hours per semester in course registration time; improved resource allocation for the university's academic departments

## LEADERSHIP EXPERIENCE

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### UCSD SUSTAINABLE INVESTMENT GROUP

San Diego, CA

*Vice President of Quantitative Research*

Jan 2024 – Present

- Led a team of 30 in performing fundamental analysis and developing medium-term stock growth forecasts
- Designed a climate-adjusted CAPM model to assess the impact of carbon intensity and climate policy risk on stock returns, enabling more sustainable investment decisions
- Developed models to evaluate Environmental, Social, and Governance metrics impacts on company performance
- Mentored team members in creating visually compelling stock pitches, resulting in 14 presentations that showcased innovative investment theses to panels of regional industry professionals

## ADDITIONAL INFORMATION

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*Technical Skills:* R, Python, Stata, Microsoft Office & Excel (VBA), MATLAB, SQL, Bloomberg Terminal

*Certifications:* FCC Element 3 (Ham Radio) General Class License

*Interests:* Running, Biking, Surfing, DJing, Investing