

SIDDHARTHA BISWAS

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EDUCATION

New York University — B.A. in Computer Science (Incoming)

Expected May 2030

New York, NY

The Harker School — High School Diploma

Jun 2026

San Jose, CA

AP Examinations: Computer Science A (Data Structures), Calculus BC, Statistics, Macroeconomics, Microeconomics, Environmental Science, European History, U.S. Government & Politics, U.S. History, Biology

Advanced Coursework: Honors Differential Equations, Honors Discrete Mathematics

HONORS & AWARDS

USA Computing Olympiad (USACO) — Silver Division

WORK EXPERIENCE

University of California, Los Angeles (UCLA) — Student Researcher

Jul 2025 – Present

Environmental Data Science · Remote

- Produced a final research poster and presentation for a UCLA faculty and PhD research group by analyzing satellite remote-sensing data against ground-based field measurements of water usage and plant water stress across a multi-month external collaboration.
- Mapped environmental disaster patterns for the research team, as measured by a set of interactive maps, by processing remote-sensing datasets in Python and QGIS. **Python, QGIS, Excel.**

PROJECTS

Stock Backtesting Website — biswas.net/sid/stocktest

2026 – Present

- Enabled users to test whether a trading strategy beats the market, as measured by backtested returns against a buy-and-hold baseline, by building a browser-based simulator over historical market data.
- Exposed strategies that only win on paper, as measured by post-cost returns, by modeling capital-gains taxes, trading commissions, and transaction costs directly in the simulation.
- Ran the entire simulation client-side with zero server infrastructure by compiling the Python backtesting engine to TypeScript to execute in a Web Worker. **Python, TypeScript, React.js, Web Workers, Claude Code.**

Dou Shou Qi — biswas.net/sid/doushouqi

2021 – Present

- Shipped a fully playable web version of the strategy game Dou Shou Qi, as measured by support for complete matches against computer opponents, by implementing the game's rules engine and AI bot players. **Python, HTML5, JavaScript.**

TECHNICAL SKILLS & LANGUAGES

Programming & Tools: Python, JavaScript, TypeScript, Java, React.js, HTML5, QGIS, JMP, Microsoft Excel, Adobe Illustrator, Claude Code

Spoken Languages: English (native/bilingual), Bengali (full professional), Chinese (elementary)

VOLUNTEERING

San Jose Public Library — Volunteer

Dec 2022 – Present

Second Harvest of Silicon Valley — Volunteer

Jan 2025

LEADERSHIP & ACTIVITIES

President, Harker Table Tennis Club

Sep 2022 – Jun 2026

Member: AI Club, Game Development Club, Badminton Club