

# Dillon Bowes

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## EDUCATION

**University of California San Diego**, School of Economics, San Diego California

**September 2022-June 2026**

*Bachelor of Science in Economics*

**Cumulative GPA:** 3.3/4.00      Minor: Data Science (Halicioğlu Institute for Data Science)

**Scripps Ranch High School**, San Diego, CA

**September 2018-June 2022**

Cumulative GPA: 4.3/4.0

## TECHNICAL SKILLS

**Skilled Programmer** (Java, Python, Ruby/HTML)

- Designed programs for both personal and business use in Java, Python, and Ruby/HTML

**Experience with Web Technologies**

- Graphic design, HTML, CSS, JavaScript

**Finance and Economic Modeling**

- Proficient in economic modeling, financial analysis, and statistical methods using Python, R, and Excel for forecasting, risk analysis, and data-driven decision making.

## RELEVANT COURSEWORK

Mathematical Foundations of Computer Science; Regression Discontinuity Designs, Casual Inference Methods in Econometrics, Probabilistic Modeling, Machine Learning, Advanced Econometrics, Data Mining, Decisions Under Uncertainty, Applied Linear Algebra for Machine Learning, Data Analysis and Inference, Calculus and Analytical Geometry for Science and Engineering

## EXPERIENCE

**Fire Mountain Labs** – Remote/San Diego, CA

**July 2024 – Present**

Product Development & Consulting Intern

- Provided product feedback and development for AI-centered training programs and professional certifications.
- Consulted on cyber defense initiatives, including the application of cyber defense matrices to evaluate organizational resilience.
- Assist in creating frameworks for assessing complex systems, identifying weaknesses, and restructuring processes for optimal performance.
- Contribute to ongoing research and client consulting projects in AI governance, vulnerability assessment, and penetration testing.

**Economics Research Lab** – Dr. Alisher Batmanov – San Diego, CA

**September 2023 – Present**

Research Assistant (Python)

- Contributed to a research paper titled Mental Models, Social Learning, and Statistical Discrimination.
- Implemented refined reinforcement learning models and conducted statistical analyses of CDFs for experimental applications.
- Utilized Python extensively for data scraping, cleaning, and analysis in support of large-scale behavioral studies.
- Investigated the role of psychological factors versus financial incentives in hiring decisions, analyzing how education and other candidate characteristics influence outcomes.

UCSD— San Diego, CA

September 2022 – January 2025

Mentor, Mentor Collective Program

- Mentored three freshmen at UCSD on class schedules, faculty engagement, and professional development.
- Strengthened leadership skills by effectively delivering critical information to keep students on track.

NIWIC PAC— Point Loma, CA

June 2022– September 2022

Data Analysis Intern, Autonomous Systems

- Developed data analysis and economic modeling skills while managing workflow and deliverables at NIWC PAC.
- Worked with a professional team, responding to leadership feedback and navigating high-pressure situations.
- Delivered a project pitch on robotics, using data from physical and virtual tests in Inventor CAD and Fusion.

Brains and Motion Education – San Diego, CA

June 2024 – June 2025

Instructor, Instruction/Curriculum Development

- Teach coding to children and teens, focusing on HTML and a custom-designed software, while developing engaging lesson plans that blend theory and practice.
- Foster a creative learning environment and collaborate with teams to refine curriculum and improve the learning experience.

### Projects & Research

#### The Economics of Wartime Trading – Research Paper

- Authored a research paper analyzing the effects of wartime trading on average investors.
- Investigated market dynamics, asset volatility, and investor behavior under conditions of economic uncertainty.

#### Independent Investment & Black Box Modeling

- Developed a proprietary model for evaluating foreign currency exchange rates and identifying optimal trading opportunities.
- Applied quantitative analysis to assess market conditions and make data-driven trading decisions.
- Gained experience in risk assessment, portfolio optimization, and automated decision-making strategies.

#### Personal Professional Website – [dillonbowes.github.io](https://dillonbowes.github.io)

- Designed and developed a personal professional website using HTML, CSS, and JavaScript.
- Implemented interactive features and dynamic content to enhance user experience.
- Showcases portfolio, blog, and project highlights, reflecting skills in web development and design.
- Demonstrates proficiency in front-end development and commitment to personal branding.

#### Company Financial & Strategic Analysis - Research Paper

- Conducted a detailed analysis of a publicly traded company, evaluating financial statements, competitive position, and market trends.
- Assessed profitability, liquidity, and growth metrics to identify strengths, weaknesses, and potential strategic opportunities.
- Developed scenario models to evaluate the impact of strategic decisions on financial performance.
- Utilized Python to automate data collection, generate visualizations, and support quantitative analysis of key metrics.
- Produced a comprehensive report with actionable insights, combining financial, operational, and strategic perspectives.

### ACTIVITIES

September 2018 - Present Volunteer, Ronald McDonald House

January 2022 - Present Member, Alzheimer's Association