Juan Elias

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EDUCATION

University of California Berkeley   Berkeley, CA
B.A. in Data Science – Business/Industrial Analytics Track   *May 2025*
  − Regents' and Chancellor's Scholar – UC Berkeley's most prestigious merit-based scholarship.

EXPERIENCE

Data Engineering Intern   Aug 2023 – Dec 2023
Poder Capital   *New York, NY*
  − Automated internal data pipelines using Zapier to streamline business processes and minimize operational errors.
  − Worked cross-functionally to identify inefficiencies and build data automation systems that enabled better decision-making for underserved small business clients.
  − Gained exposure to credit modeling and risk evaluation within a financial tech and lending environment.

Teaching Assistant & Tutor   Aug 2021 – May 2023
City College of San Francisco   *San Francisco, CA*
  − Supported courses in Computer Science fundamentals, helping students master data structures, programming logic, and algorithmic thinking.
  − Graded assignments, led study sessions, and provided 1-on-1 tutoring to reinforce problem-solving skills.

Field Operations   June 2020 – Feb 2022
Admiral Security   *Concord, CA*
  − Managed logistics and staff coverage for multiple client sites, coordinating compliance, training, and field communication.
  − Maintained detailed records to ensure safety protocol adherence and minimize liability risk.

PROJECTS

Baccarat Betting Simulator | *Python, Matplotlib*   Nov 2024
  − Simulated 1,000+ rounds of Baccarat to evaluate the effectiveness of various betting strategies using probabilistic modeling.
  − Bootstrapped a $1,500 virtual wallet to measure bankroll volatility, ROI, and risk exposure across scenarios.
  − Used data visualizations to compare strategy performance and identify when risk outweighed expected value—ultimately revealing the optimal move was not to play.

Ticket Support System | *MongoDB, Express, React, Node.js*   Mar 2023
  − Built a helpdesk system with CRUD capabilities, secure login, and ticket management to track support workflows.
  − Connected frontend and backend via RESTful APIs; structured user and ticket data for queryable reporting.

FitForm Tracker | *Python, Blazepose, TensorFlow, GPT-4, Flask*   Jun 2023
  − Used AI to monitor user movement and give feedback on form, demonstrating experience in real-time anomaly detection.
  − Built a full-stack application connecting webcam tracking to feedback loops powered by GPT-4.

RELEVANT COURSEWORK

Probability and Statistics, Data Science Inference, Machine Learning, Financial Decision-Making, Risk Analysis, Algorithms, Regression and Classification

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML/CSS, Assembly
Frameworks: TensorFlow, PyTorch, Flask, Django, Node.js, React JS
Libraries: pandas, NumPy, Matplotlib, scikit-learn, seaborn, SciPy, Plotly
Tools: Excel (VLOOKUP, PivotTables), Git, Jupyter, VS Code, IntelliJ
Databases: MySQL, MongoDB, SQLite