

# LOUISA RAWLES

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## EDUCATION

University of Virginia, Charlottesville, VA

August 2023 - Expected May 2027

B.A. Computer Science; Minor Commerce General Business

- **ACT:** 36 | **Awards:** Dean's List
- **Relevant Coursework:** Software Development Essentials, Data Structures and Algorithms, Computer Systems and Organization, Statistical Analysis, Micro-/Macroeconomics, Financial Accounting, Preparing for Research

St. George's High School, Newport, RI, *Cum Laude*

August 2019 - May 2023

## TECHNICAL SKILLS

- **Languages:** Python | Java | C | SQL | PDDL | R | Chinese (Basic)
- **Tools:** AI/ML | Git | Jupyter | JDBC | macOS | Linux | HTML | CSS | Excel

## PROFESSIONAL EXPERIENCE

UVA Engineering Link Lab - Collaborative Robotics Lab, Charlottesville, VA

May 2025 - Present

Human-Robot Interaction Research Assistant

- Leverage ROS 2, computer vision, and Fast Downward classical AI planning system to design, implement, and test PDDL domain/problem files for the Stretch robot
- Extend visual servoing and teleoperation models to execute active search and detection via dynamic mapping with Stretch
- Analyze HRI literature, including research on computer vision, task and motion planning, and Code as Policy frameworks

University of Virginia P2L Program, Charlottesville, VA

September 2025 - Present

Peer Coach (MATH 1310)

- Instruct 90-minute weekly drop-in review sessions hosting 20+ students, empowering growth and collaborative problem solving through active learning activities and problem sets
- Design targeted lesson plans addressing learning pain-points based on analysis of lecture engagement and exam data

The Red Rock Ranch, Kelly, WY

May 2024 - August 2025

Server (Seasonal)

- Demonstrated strong communication with 30-40 guests per seating, 6 days a week, along with supervisor and colleagues
- Guided guest hikes and fostered community through hospitality

## KEY PROJECTS

Course Reviews Application -- Capstone Project for Software Development Essentials

December 2025

- Collaborated on a crowdsourcing platform empowering student enrollment decisions through access to peer course reviews
- Created and Developed the database driver, login controller, Review, User, and Course classes, as well as the login scene
- Utilized GitHub, Java, JDBC, SQLite, Scene Builder, and FXML to develop, test, and adjust the codebase, achieving a perfect score

Take-Two Interactive Software, Inc. -- Stock Pitch for *Smart Woman Securities*

October 2025

- Pitched long with anticipation of future sale post *GTA VI* launch
- Forecasted 50% FY 2026 revenue surge catalyzed by *GTA VI* launch and mobile gaming expansion
- Modeled free cash flows, executed industry/company research, and evaluated core strategy shift to sustainable profit growth
- Identified upside potential through DCF and comps analysis

Celsius Holdings, Inc. -- Stock Pitch for *Smart Woman Securities*

May 2025

- Pitched long position derived from quantitative financial and market data analysis
- Forecasted Pepsi trade agreement and Alani acquisition to expand CELH market share and enhance product diversification, and ROIC to stimulate Q2 FY 2025 revenue growth
- Q2 FY 2025 earnings call revealed 84% YoY revenue increase, 1.8-point market share increase, and 2x EBITDA

Hidden Demographic Biases in NLP Models, Charlottesville, VA

May 2025

Special Topics in Computer Science: Preparing for Research

- Collaborated on a 4-person team to implement NumPy/Pytorch/Transformers with NLP models, "unitary/toxic-bert" and "text-classification," to generate a pipeline quantifying gender and racial AI/ML bias across 24 model inputs
- Modeled/analyzed toxicity score fluctuations and proposed future research to improve AI for real-world systems to faculty

## LEADERSHIP & SERVICE

Smart Woman Securities, Charlottesville, VA

February 2025 - Present

TMT Analyst

- Conduct fundamental and macroeconomic research, analyze market trends, risks and catalysts, and build valuation models
- Excelled in 12-week investment training program, ranking top three in organization-wide stock pitch competition

## ACTIVITIES AND INTERESTS

- **Activities:** Smart Woman Securities, UVA Club Squash Team, Women in Computer Science, Kappa Kappa Gamma
- **Leadership and Service:** Ducks Unlimited, Christ Episcopal Church Fellows Program, Gordie Club
- **Interests:** Software Projects, Ski Mountaineering, Squash, Mahjong, Reading, Hiking, Running