

John Quevedo

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EDUCATION

Yale University

New Haven, CT

Bachelor of Science in Computer Science and Mathematics, GPA: 3.83

Expected May 2028

Awards/Honors: Jane Street Unboxed Scholar, Hispanic Heritage Foundation Fellow

Relevant Coursework: Intermediate Machine Learning, Algorithms, Data Structures and Programming Techniques, Theory of Statistics, Probability Theory, Discrete Mathematics, Linear Algebra, Real Analysis

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, TypeScript, SQL

Software: Git, Linux/Unix, GDB, NumPy, pandas, scikit-learn, PyTorch, TensorFlow, Docker, PostgreSQL, Jupyter

WORK EXPERIENCE

Yale University

New Haven, CT

Undergraduate Researcher, Transformer Reasoning

Feb 2026 – Present

- Ran controlled training experiments to analyze emergence of in-context learning and chain-of-thought reasoning.
- Built evaluation pipelines to test effects of data distribution and curriculum schedules on reasoning.
- Implemented looped transformer variants and measured changes in iterative reasoning behavior.

Yale University

New Haven, CT

Undergraduate Researcher, Parallel Graph Algorithms

Oct 2024 – Present

- Designed and implemented parallel batch-dynamic k-clique counting for sparse graphs on multicore systems.
- Optimized parallel hash tables and set intersections to reduce update latency and improve scaling.
- Cut memory by replacing quadratic intermediates with arboricity-aware sparse representations.

PROJECTS

Full-Stack Social Reading Platform (Next.js, TypeScript, Tailwind CSS, PostgreSQL, Prisma, NextAuth, Docker)

- Built a full-stack social reading app with search, personal bookshelves, reviews, follows, and activity tracking.
- Designed PostgreSQL/Prisma schema and APIs for authentication, notifications, comments, likes, and follows.
- Implemented responsive UI and secure authentication, enabling persistent user profiles and social interactions.

Movie Recommendation System (Python, Streamlit, Pandas, NumPy, SciPy, implicit)

- Built a personalized movie recommendation system using collaborative filtering on the MovieLens 100K dataset.
- Increased catalog coverage from 3.9% to 37.0% of movies.
- Deployed an interactive Streamlit app that updates recommendations in real time from user-ratings.

Probabilistic Stock Volatility Forecasting Dashboard (Python, PyTorch, GPyTorch, yfinance)

- Built a machine learning pipeline to forecast 5-day stock volatility using historical market data.
- Improved forecast accuracy by 23–28% compared to simple baseline methods across SPY, QQQ, and AAPL.
- Shipped a Streamlit dashboard for visualizing forecasts, uncertainty bands, and model performance.

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow

Washington, DC

Career Preparation Fellow

Jan 2024 – Present

- Accepted into a selective 18-month professional development program that accelerates the career growth of emerging leaders through structured coaching, mentorship, and targeted skill-building.
- Engage with leading partner organizations (e.g., LinkedIn, Bloomberg, and Deloitte) to gain industry exposure and insight into tech-talent pathways.

MATHCOUNTS Foundation

New Haven, CT

Volunteer Coach

Sep 2020 – Present

- Coached multiple Connecticut middle school teams during the competition season.
- Led weekly practices and worked with students on challenging competition problems.

ADDITIONAL SKILLS AND INTERESTS

Fluent in Spanish, machine learning systems, distributed systems, performance engineering, large-scale data pipelines