

HUGH KOMINSKY

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science & Finance

May 2026

GPA: 3.6/4.0

Coursework: Software Engineering, Computational Finance, Applied Econometrics, Database Design, Algorithms

WORK EXPERIENCE

Scotiabank

New York, NY

Equity Derivatives Software Engineer Co-op

Dec 2024 – June 2025

- Extended the Java pricing automation pipeline to support twice as many derivative structures by improving price request parsing and transformation logic, raising daily capacity from 80 to over 300 pricing requests
- Developed an automated email system with Spring Mail to deliver prices directly to sales desks via RESTful API calls, eliminating manual trader intervention and reducing turnaround time by 90%

Marsh McLennan

Philadelphia, PA

Reinsurance Risk Modeling Co-op

Jan 2024 – June 2024

- Engineered Alteryx and MySQL data pipelines to process over 500,000 catastrophe loss records across 100 client portfolios to identify risk patterns that improved model forecast accuracy by 8% for wildfire and hurricane losses
- Constructed SQL workflows to process outputs from Verisk Touchstone RE and RMS, supporting pricing and placement decisions for 20 client reinsurance placements

J&K Seminars

Wyncote, PA

Software Engineer Intern

Apr 2023 – July 2023

- Deployed an automated attendance tracking system using Python and Zoom API to process over 1,000 monthly webinar participants across 25 states, reducing manual analysis for regional CE credentialing by 95%
- Designed a data pipeline to compare webinar attendance with state license requirements, identifying participants needing additional forms and eliminating 90% of manual checks

PROJECTS

[Market Brief](#) | Python, FastAPI, React, TypeScript, Tailwind, OpenAI API, Whisper, Vercel, Render Mar 2026

- Built a full-stack earnings call analyzer with FastAPI and React, implementing a map-reduce approach to handle long transcripts with OpenAI API powering summarization, KPI extraction, and sentiment analysis
- Created a chat interface with conversation history management, retry logic, and a Whisper-based audio transcription, enabling users to effectively extract individualized insights

[Myolog](#) | Python, Flask, Selenium, JavaScript, HTML, CSS, PostgreSQL, Supabase, Render Aug 2025

- Automated a Selenium scraping pipeline with GitHub Actions to ingest over 10,000 workout records into a Supabase PostgreSQL database, and visualized trends with an interactive Flask dashboard

[Options Pricer](#) | Python, NumPy, SciPy, yfinance Dec 2024

- Modeled European options using Black-Scholes and Monte Carlo models with live market data and a Brent-method implied volatility solver to compare theoretical and market pricing

[Pickaxe Knockout](#) | UEFN, Verse, Blender, GIMP May 2024

- Launched an indie game in UEFN, coding 36 unique perks, stat tracking, and progression systems in Verse, reaching over 1,200 players with an average session retention of 32-minutes

SKILLS & TECHNICAL TOOLS

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML, CSS, Verse

Technologies: React, Flask, FastAPI, Redis, MongoDB, PostgreSQL, Alteryx, Tailwind

Tools: Git, GitHub, Docker, CI/CD, Vercel, Render, Jira, Maven, Gradle, JUnit, Pytest, Jest