

Cormac Taylor

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EDUCATION

Stevens Institute of Technology | *GPA: 3.955*

Hoboken, NJ

Computer Science, B.S.

September 2022 - **May 2025**

- **Awards & Honors:** Upsilon Pi Epsilon Honor Society, Edwin A. Stevens Scholarship, Dean's List (All semesters)
- **Relevant Coursework:** Algorithms, Data Structures, Discrete Structures, Operating Systems, Systems Programming, Database Management Systems, Linear Algebra, Probability & Statistics, Computer Architecture & Design

WORK EXPERIENCE

TD Securities | *Java, Spring Boot, JUnit, Maven, IntelliJ, & Agile Development*

New York, NY

Back-End Software Engineer, Summer Analyst

June 2024 - August 2024

- Integrated program flows (handling **10,000+ trades daily** for various financial instruments) to existing material nonpublic information (MNPI) repositories utilizing **Java** and **Spring Boot**.
- **Improved performance** of trade surveillance systems by **6.5%** by spearheading the transition to **Java 17**.
- Engineered and automated **enterprise integration** processes using **Java**, **Maven**, and **Spring Boot**, enhancing system reliability and **efficiency by 15%**.
- **Boosted** the lifespan of a critical piece of our data pipeline by **two years** by migrating to **Spring Boot 3**.
- **Saved dozens of man-hours** by documenting trade surveillance systems, greatly lowering knowledge transfer costs.

Vector Marketing, CUTCO | *High-Pressure Situations, Time Management & Presentation Skills*

Fairfield, NJ

Sales Representative

July 2022 - August 2022

- **Developed professional confidence** by making 100s of calls leading to dozens of **hour-long presentations**.

PROJECTS (see cormac-taylor.com)

Personal Finance Workbook Generator | *Java & Spring Boot*

August 2024 - Current

- Automating the creation of Google Sheets workbooks using **Java** and **Spring Boot**. Functionality includes investment portfolio tracking & tools, budgeting, credit card statistics, and credit score & net worth tracking.
- Next steps: develop the front-end on cormac-taylor.com to allow distribution and research banking/brokerage APIs.

Personal Website | *Three.js, Next.js, TypeScript, & Tailwind CSS*

August 2024 - Current

- Building a portfolio website on cormac-taylor.com to consolidate lessons, achievements, and interests (ranging from professional to personal). Additionally, cormac-taylor.com will be used as a sandbox to sharpen my front-end skills.

Online Multiplayer Trivia Game | *C*

May 2024 - May 2024

- Engineered a **live multiplayer trivia game** utilizing **socket programming** and the **client-server model** supporting classic or custom trivia questions. **Increased performance** by processing questions while waiting for players to join.

Chrome Extension Portfolio | *JavaScript, HTML, CSS, & Chrome API*

September 2023 - February 2024

- **Published** a Pomodoro timer extension to the Chrome Web Store using **JavaScript**, **HTML**, and **CSS**. Features include the Pomodoro timer, notification-based alarms, and a to-do list. Demo: youtube.com/watch?v=qIEKYR-W5rI
- Built a TV show search extension in **JavaScript**, **HTML**, and **CSS** using a **third-party API** to help find shows related to queried keywords. Integrated text-to-speech functionality to increase accessibility.

Custom CPU and Assembler | *Python & Logisim-Evolution*

December 2023 - December 2023

- Designed a custom **ARM-style CPU** using an **open-source** project supporting **Assembly's** addition (ADD), multiplication (MUL), load register (LDR), and store register (STR) instructions, plus support for immediate numbers.
- Developed a corresponding assembler in **Python** to translate programs into machine code for the CPU to process.

TECHNICAL SKILLS

Languages: Java, Python, C++, C, PostgreSQL, OCaml, Bash, Javascript, HTML/CSS, TypeScript, MATLAB

Tools: VS Code, IntelliJ, Maven, Jira, Confluence, Microsoft 365 Applications

Technologies/Frameworks: Linux/Unix, Git, Spring, JUnit, React, Three.js, Next.js, Tailwind CSS

Operating Systems: MacOS, Ubuntu, Debian, Windows

EXTRACURRICULARS

Interests: Personal Finance, Entrepreneurship, Philosophy, Psychology, Craftsmanship, Engineering, Cooking

Hobbies: Weight Lifting, Road Running, Woodworking, Smoking Barbecue