

# Cormac Taylor

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## EDUCATION

Hoboken, NJ **Stevens Institute of Technology** September 2022 - **May 2025**

- **Major:** Computer Science, B.S. (GPA: 3.955)
- **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](https://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](https://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](https://cormac-taylor.com) to consolidate lessons, achievements, and interests (ranging from professional to personal). Additionally, [cormac-taylor.com](https://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](https://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