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, Concurrent Programming, Operating Systems, Database Management Systems, Machine Learning: Fund. & App., Linear Algebra, Probability & Statistics

WORK EXPERIENCE

JoStrong | *MongoDB, Express.js, React, & Node.js*   Hoboken, NJ
Tech Lead   August 2024 - Current
- **Built a team of 6** talented developers and am **leading us through** the full **Software Development Lifecycle**.
- Created and implemented an onboarding process to **clarify client vision** and set **benchmarks defining team success**.
- Currently developing a **full-stack web portal** to simplify client experience and automate administrative tasks.

TD Securities | *Java, Spring Boot, JUnit, Maven, & Agile Development*   New York, NY
Back-End Software Engineer, Summer Analyst   June 2024 - August 2024
- **Improved performance** of trade surveillance systems by **6.5%** by spearheading the transition to **Java 17**.
- **Boosted system reliability and efficiency by 15%** by automating enterprise processes in **Spring Boot**.
- Integrated program flows handling high volumes of trading data to existing code base using **Java** and **Spring Boot**.
- **Added two years** to the lifespan of a critical data pipeline by migrating to **Spring Boot 3**.
- **Saved dozens of man-hours** by consolidating and documenting systems, greatly lowering knowledge transfer costs.

PROJECTS (see cormac-taylor.com)

Personal Finance Workbook Generator | *Java, Google Cloud, & Google Sheets API*   August 2024 - Current
- **Increasing accessibility** to strong **personal finance** habits by automating the creation of Google Sheets workbooks.
- Implementing in **Java** utilizing **Google Cloud** and **OAuth 2.0** users track their investment portfolios, credit score & net worth with a suite of helpful tools. Additionally, automating budgeting and credit card statistics.

Personal Website | *Three.js, Next.js, TypeScript, & Tailwind CSS*   August 2024 - Current
- Building a portfolio website on cormac-taylor.com to meaningfully display projects and UX skills.

Online Multiplayer Trivia Game | *C*   May 2024 - May 2024
- **Increased performance** by leveraging dead time – processed questions while players wait for players to join.
- Engineered a **real-time multiplayer trivia game** utilizing **socket programming** and the **client-server model** offering uncapped game size and classic or custom trivia questions.

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, multiplication, load register, and store register instructions. Additionally offering 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, Groovy, Python, C++, C, PostgreSQL, MongoDB, Javascript, TypeScript, HTML/CSS, Erlang, OCaml, Bash, MATLAB, Promela
Tools: VS Code, IntelliJ, Maven, Jira, Confluence, Microsoft 365 Applications, Google Workspace, SPIN
Technologies/Frameworks: Linux/Unix, Git, Spring, JUnit, Node.js, Express.js, React, Three.js, Next.js, Tailwind CSS, Jest
Operating Systems: MacOS, Ubuntu, Debian, Windows

EXTRACURRICULARS

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