

Ethan Mathieu

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EDUCATION

Yale University

BS Candidate, Computer Science

Expected Graduation in May 2025

New Haven, CT

- **Relevant Coursework:** Data Structures, Algorithms, Systems Programming, Full-Stack Web Programming, Discrete Math, OOP, Theory of Distributed Systems, Linear Algebra, Machine Learning, Multivariate Statistics, Data Analysis
- **Activities & Societies:** Yale Computer Society (Vice President), NSBE (Member), CS Department Student Advisory Committee (Elected Member)

WORK EXPERIENCE

Incoming Software Engineering Intern

Netflix

Los Gatos, CA

May 2024 – Aug 2024

- I will do backend software engineering for the Media Compute & Storage Infrastructure Team @ Netflix in Summer 2024.

Learning Assistant

CPSC 110: Python Programming

New Haven, CT

Jan 2024 – Present

- Lead weekly discussion section on course lecture content, hold office hours, grade Python programming work, and advise on novel class projects.

Software Engineering Intern

Procter & Gamble

Cincinnati, OH

May 2023 – Aug. 2023

- Engineered a full stack product built on Next.js, FastAPI and Google BigQuery that allows employees to map related ad spend records to each other, unlocking novel data management and analysis on millions of records.
- Collaborated with stakeholders to generalize my product for deployment into the digital solutions hub with Docker containers, enabling broader employee use.
- Designed approach to the stated business problem from scratch, leveraging a deep understanding of data structures, algorithms and creative problem solving.

Software Developer - Research Assistant

Yale Efficient Computing Lab

New Haven, CT

June 2022 – Jan. 2023

- Developed software applications in Rust to test throughput of an ixgbe network driver in experimental operating system.
- Implemented changes in Rust to network driver's transmission path that increased emulated packet throughput by as much as 50% in tests.

TECHNICAL SKILLS

- **Languages & Tools:** Python, JavaScript (React & Next Frameworks), TypeScript, C, C++, Rust, Git, Google Cloud Platform, SQL, Docker, R, Figma, Databases, PyTorch
- **Technical Areas:** Software Engineering, Cloud, Data Modeling, Computer Networks and Architecture, Systems Design
- **Certifications:** Software Development - IBM Accelerate 2023

PROJECTS (<https://github.com/emath12>)

[ymeets](#) (React, TypeScript, Firebase, GitHub) | *Team Leader, Developer*

- Web application that enables people to find a common time and place on campus to meet.
- Developed key components, including the availability selection calendar and Google Calendar integration features.
- Controlled the quality of the work of 7+ developers on GitHub by assigning issues, merging pull requests and designing code consistency standards.

MintPortfolio (React, TypeScript, Python Flask) | *Lead Developer*

- Developed full stack app that allows users to create and save their own stock portfolios and compare their performance against the market by leveraging a finance API.

LaTeX-Style Macro Processor (C++) | *Solo Developer*

- Created a program that allows users to define complexly recursive and conditional user macros.