

Tomer Nahum

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Education

Computer Science BA, Hunter College
GPA: **3.78/4.0**

08/2022 – 05/2026
New York City, USA

Relevant Coursework:

- Introduction to Computer Science (taken at Columbia University, summer course)
- Software Analysis and Design 1, 2, 3 (C++ OOP, Data Structures, Algorithms)
- Digital Design, Computer Theory, Applied Statistics, Calculus, Intro to Microeconomics

Personal Projects

Encrypted Realtime Chat, *Fullstack Website* [↗](#)

- Allows users to quickly create chatrooms and send them to their friends, without creating an account.
- Each message is end to end encrypted via AES-GCM protocol using a symmetric key stored in the url address that is not sent to the server (this is the same strategy that excalidraw and mega.nz use).
- The chatrooms listen to messages broadcasted in real time via a websocket connection.
- Messages are also saved in a PlanetScale MySQL database (messages table with index on roomId column) and past messages are retrieved when room is loaded
- Used: **SvelteKit, Socket.io, Typescript, Node.js, DrizzleORM, MySQL, Planetscale, Web Crypto API**

Automatic Video Editor, *Python Terminal Script* [↗](#)

- Allows you to cut out bad takes in a video while you are still recording it, saving you time in editing afterwards. Pair this with existing silence-trimming programs, and effect programs designed for livestreams, and you can save up to 100% of your time in editing.
- Runs at the same time as you are recording a video, and allows you to press keyboard shortcuts to indicate if you want to restart the current take or accept the take into the final video. Shows you a running count of what the video runtime will be after cuts.
- The cuts you mark are written into a structured "timestamps" file. Once you are done recording, the program will process the timestamps file along with the video file and make all the cuts on your behalf.
- Used: **Python, MoviePy** (wrapper around ffmpeg), **OOP**

Universe Splitter Webapp, *Frontend HTML website* [↗](#)

- Inspired by the iPhone app, this webpage lets you get a random number generated using quantum physics. There is a theory believed by some physicists, that doing so will result in the universe being split with you seeing a different number in each universe. Base a decision on this and you will be able to feel that there is some universe out there where you chose the other option.
- PWA(Progressive Web App) written in vanilla HTML, CSS, & JS.
- Calls the ANU QRNG JSON API to get the quantum random numbers.
- Used: **HTML, CSS, JS, PWA (Service Workers), API consuming, Responsive Design**

Other Experience

Hackathons

Columbia Devfest [↗](#)
HackHarvard [↗](#)
SBUHacks [↗](#)

Skills

Languages: Javascript, Typescript, Python, C++, Java, SQL, HTML, CSS, Markdown
Frameworks: React, Remix, Svelte, SvelteKit, Express.js, Hono.js, Tailwind, Flask, NumPy, pandas
Technologies: MySQL, MongoDB, Node.js, Docker, Git, Github, Cloudflare Workers, AWS
Ideas: OOP, Procedural Programming, Design patterns, Complexity Analysis