

# Tomer Nahum

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## Education

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**Bachelor of Arts, Majoring in Computer Science, Hunter College**

08/2022 – 12/2026

Major GPA: **3.88/4.0**

New York City, USA

Cumulative GPA: 3.80/4.0

### Relevant Coursework:

- OOP in C++, Data Structures and Algorithms,
- Intro to Programming and Data Analysis in Python
- Digital Design, Computer Architecture, Computer Theory,
- Intro to Cyber Risk, Intro to Security
- Applied Statistics, Calculus, Microeconomics

## Skills

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Languages: Javascript, Typescript, Python, C++, Java, SQL, HTML/CSS, Bash  
Libraries & Frameworks: React, Next.js, React Native, SvelteKit, DrizzleORM, Tanstack Query, shadcn/ui, Zustand, TinyBase, Express.js, Hono.js, y.js, and more, Flask, NumPy, Matplotlib, Pandas, Selenium,  
Technologies: mySQL, SQLite, MongoDB, Node, Docker, Git, Github, OpenAI, Cursor, Vim

## Personal Projects

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

- Developed a full stack web application which enables users to quickly and conveniently set up private end-to-end encrypted chat rooms and share them with just a link, without the friction of downloading software or registering accounts
- Created css styling from scratch, utilizing Svelte for scoped styles and components, and Typescript for full-stack type safety
- Utilized the Web Cryptography javascript API to end-to-end encrypt all messages client side with a symmetric key.
- Utilized a backend server with Socket.io to relay the messages in real time, and the DrizzleORM SQL query builder to store the encrypted messages in a mySQL database soon to be running on a coolify vps (formerly railway & Planetscale).

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

- Reduced my time spent editing videos by 95% by creating a python program that automatically cuts out bad takes, trims out long silences, and performs other edits
- Implemented a system for the user to indicate edits while a video is still being recorded, and save those into a config file
- Utilized MoviePy (ffmpeg wrapper library) to automatically perform all edits on the video without human attention
- Explored & started trying to implement a second version including the plugin architecture for more possible edits, and learned about programming principles, OOP, design patterns, architecture patterns, clean code and more.

### Youtube Embed Viewer, *Website* [↗](#)

- Capitalized on youtube adblock ban subversion trend by making a website that provides a really simple way to watch youtube without ads (by viewing videos as embedded on another page), then posted to Reddit garnering 142K impressions in the first 48 hours with 333 upvotes, 178 shares and 99 comments.
- Implemented Google analytics, Cloudflare analytics and later Self-Hosted Umami analytics (available to view publicly [here](#) [↗](#)) Currently getting 132 visitors & 791 views / month 10 months after creation
- Built quickly in one night, using Svelte, Tailwind, and Tanstack Query (aka React Query) for interfacing with APIs

Other personal coding projects can be found on my Github [↗](#) and my website [ttools.io](#) [↗](#)

## Hackathon Projects

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**SBUHacks** [↗](#) - LearnerAI - **Used:** React native, flask, mongoDb

**Hackharvard** [↗](#) - chat-S-gpt - **Used:** Next.js, Mongo, OpenAI API, Whatsapp API,

**Columbia DevFest** [↗](#) - BlockRat - **Used:** React, google maps API - Teammates used: PyTeal, Tensorflow for Machine Vision