

# Wolf Mermelstein

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## EDUCATION

### Case Western Reserve University

B.S. Computer Science, 3.93 GPA

Cleveland, OH

September, 2023 - Anticipated

- **Courses:** Networks, Linux Tools & Scripting; Algo/Data Structures, OS, Persuasion 2026
- **Experience:** [Veale Snyder Fellow](#), Linux Club Co-President, Board Game Club VP, Software Craftsmanship TA

### Bard Early College

Associate of Arts, 4.00 GPA

Queens, NY

September, 2021 - June, 2023

## AWARDS & HONORS

HackCWRU (University Hackathon) First Place

February 2024

Case Western ThinkBox Student Project Fund (\$630)

October 2023

Microsoft Bug Hunter Acknowledgment

March 2022

## EXPERIENCE

### Fullstack Software Engineer

May 2025 – Present

Val Town Easy, fun, & instant serverless JavaScript functions.

NYC

- Designed and wrote our CLI companion ([blog](#), [code](#)) to author Vals locally, with atomic bidirectional syncing.
- Integrated Deno (Typescript) language server into Codemirror web editor ([blog](#), [code](#)) w/Cloudflare Containers.
- Helped architect and implement custom K8s load balancing system. Worked on backend redesign to enable higher throughput with sharding using Pingora, and eventual WebSocket support via Undici w/Unix socket file watchers.
- Currently working on next-edit code completions.

### Participant

June 2023 – August 2024

Recurse Center Brooklyn-based self-led coding retreat

NYC & Remote

- Learned Nix and contributed packages to [nixpkgs](#). Working on project to dockerize Android emulators with Nix docker tools ([blog](#), [code](#)). Configured NixOS desktop system from scratch w/Hyprland, home-manager, and other extensive customizations ([code](#)).
- Created Python Django server to merge Webster, OpenAI, and other API data into elegant English Vocab flashcard PDFs ([blog](#), [code](#)). Generated vector art using template SVGs and Chrome Devtools Protocol.

### Co-founder; Solo Software Engineer; Sales Manager

June 2021 – July 2022

Minecraft Name Autoclaiming Online self-run business

Remote

- Developed (Python) system to autoclaim desirable Minecraft usernames at moment of release. Automated server deployment and account distribution for 50-80 accounts/servers.
- Implemented automatic name queue, server-setup scripts w/AsyncSSH & SFTP, concurrent deployments w/Vultr API & Aiohttp, & admin interfaces.
- Facilitated sales process and auctions for over 100 buyers, generating \$6,000+ in revenue with around 200 unique accounts sold. Maintained consistently positive customer feedback and regular reorders.

## PROJECTS

### DNA Nanotube Designer Tool (“NATuG”) ([blog](#), [demo](#), [code](#))

DNA nanotechnology academic research project. Developed interactive PY-QT desktop app to streamline geometrically constrained DNA nanotube design. Collaborated w/bionanotechnologist to create important algorithms like determining helix strand switch behavior on junction clicks. Designed export file format. Wrote manual and began working on scholarly paper.

### CWRU Food Finder ([blog](#), [demo](#), [code](#))

Website using fine-tuned OpenAI model w/Google Cloud Run & MongoDB automated workflow to scrape on-campus events and categorize by free food. 2024 1st place university hackathon project. About 50 visitors/month.

## SKILLS

- **Languages:** TypeScript/JavaScript, Nix, Go, Rust, Java, Bash, Lua, C/C++, Scheme/Racket, HTML & CSS, Markdown & LaTeX, Typst
- **Tools:** Nix & NixOS, Linux, OCI Containers, Modern web frameworks (React, Next, React-router, Tailwind, Prisma/Drizzle, remark/rehype, etc), Modern python frameworks (numpy, pandas, django, PyQt/PyQtGraph, etc), Modern database systems (Postgres, Clickhouse, Redis/valkey), General devtools (Git, github workflows, GNU, etc), AWS (s3, ec2, etc), real-time networking WebAPIs (WebSockets, WebRTC, etc), Vim wizard :)