

Wolf Mermelstein

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EDUCATION

Case Western Reserve University

B.S. Computer Science, 3.93 GPA

Cleveland, OH

September, 2023 - Anticipated

- **Relevant courses:** Networks, Linux Tools & Scripting; Algo/Data Structures, OS, Persuasion 2027
- **Experience:** [Veale Snyder Fellow](#) (entrepreneurship program), Linux Club VP, Board Game Club VP

Bard Early College

Associates 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](#). Integrated the Deno (typescript) language server into our codemirror web editor ([lib](#)). Helped architect and implement custom K8s load balancing system. Worked on backend redesign to enable higher throughput with clustering, and eventual WebSocket support.

Participant

June 2023 – August 2024

Recurse Center Brooklyn-based self-led coding retreat

NYC & Remote

- **NixOS / Nix Builds** Contributed to [nixpkgs](#). Configured NixOS desktop system from scratch w/Hyprland, home-manager, and other extensive customizations. Learned Nix language/packaging binaries & various programs. Working on project to dockerize Android emulators with Nix docker tools ([code](#)).
- **Generated Vocab Cards** ([code](#)) Created Python Django server to merge Webster, OpenAI, and other API data into elegant English Vocab flashcard PDFs. Made system to generate 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

- **Software Engineer** Developed system w/Python to autoclaim desirable Minecraft usernames at moment of release. Automated server deployment and account distribution for 50-80 accounts. Implemented automatic name queue, server-setup scripts, AioHTTP Swagger-Spec'ed management server, and admin interface. Utilized Vultr API for server deployment and AsyncSSH for automation & SFTP.
- **Sales Management** 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. Includes MUI/React/NextJS frontend. Uses puppeteer to scrape additional event details. 2024 1st place university hackathon project. About 50 visitors/month.

SKILLS

- **Languages:** Python, TypeScript/Javascript, Java, Bash, Nix, Go, Rust, Lua, Scheme/Racket, C/C++, HTML & CSS, Markdown & LaTeX, Typst
- **Tools:** Nix & NixOS, Linux, 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/keyval), General devtools (Git, github workflows, gnu, etc), AWS (s3, ec2, etc), Janus Gateway & WebRTC, (neo)Vim wizard