Wolf Mermelstein

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EDUCATION

- **Case Western Reserve University** — Cleveland, OH
  B.S. Computer Science; No GPA yet. — *Anticipated 2027*
  Relevant courses: Data Structures, Logic Design & Computer Organization
- **Recurse Center** — Brooklyn, NY
  Brooklyn-based intensive coding retreat — *2023 Summer*
- **Bard Early College** — Queens, NY
  Associates of Arts; GPA: 4.00 — *Sep. 2021 - June 2023*

AWARDS

- **High School Departmental Nanoscience and Ancient Latin awards** — *May 2023*
- **Microsoft Bug Hunter Acknowledgment** — *March 2022*
- **Hackett Certificate for "greatest proficiency in oratory, either verse or prose"** — *May 2022*

EXPERIENCE

- **Brooklyn Robot Foundry** — Robotics afterschool & summer camp franchise
  Design Team Member; Teacher — *July 2020 - June 2023*
  - **Design system overhaul**: Crafted dynamic presentation templates and inventory management systems for designers & teachers, simplifying and enhancing the 'robo-kit' creation process. Educated employees on how to utilize the materials.
  - **Curriculum Design**: Developed novel 'inventors' curriculum fostering open-ended exploration, with 40+ unique lessons, taught to 10-12 year olds throughout the country & created content for astronomy 'Science Lab' course with thorough, interactive lessons for 6-9 year olds.
  - **Teaching**: Lead-taught virtual robot-building summer classes to groups of 5-12 8-13 year olds. Co-taught in person classes and robot birthdays. Helped run extended day sessions.
- **Minecraft Name Autoclaiming** — Online self-run business
  Co-founder; Solo Software Engineer; Sales Manager — *June 2021 - July 2022*
  - **Systems Design**: Developed software in Python to autoclaim desirable Minecraft usernames at the moment of release, beating competitors by milliseconds. Automated server deployment and account distribution for 50-80 accounts.
  - **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.
  - **Software Engineer**: Implemented a live automatic name queue, contrived server-setup Python scripts, coded AioHTTP Swagger-Spec'ed management server, and created interactive Discord bots. Utilized Vultr's API for automated server deployment and AsyncSSH for auth & SFTP.
- **Crystalyn Kae Inc** — Premium leather handbag company
  General personal assistant — *May 2018 - December 2019*
  - **General assistance**: Aided with studio tasks, such as photoshopping photos of merchandise, heat stamping logos onto leather bags, applying labels to handbags, and cutting leather strips. Delivered products and supplies across NYC.
  - **Ideation and Assistance**: Helped ideate & design marketing graphics.

PROJECTS

- **DNA Nanotube Designer Tool**: Academic research project involving creating an interactive application for designing geometrically constrained DNA nanotubes. Engaged in weekly collaborative debugging & planning meetings with a bionanotechnologist, self-taught advanced Python and the PyQt framework, and derived, utilized, and implemented various important algorithms.
- **Fullstack Personal Website**: Designed website with TS/JSX, React, & tailwind. Implemented custom post editing system with Postgresql, Prisma ORM, and AWS S3 to store, fetch, and render posts. Wrote backup and migration scripts in TS.
- **Hydroponic Closet Basil Farm**: Renovated closet and installed hydroponic equipment (upcycled storage containers, powerful grow lights, commercial air compressors, etc.); harvested and pruned 18 large hydroponic large-leaf basil plants weekly; maintained 100 gallons of aerated nutrient water; formulated recipes for and produced bulk pesto.

SKILLS

- **Languages**: Fluent English & Ancient Latin learner. Python, Typescript, Javascript, Java, HTML & CSS, Markdown & LaTeX, learning Verilog
- **Frameworks**: React, Tailwind, NextJS & NextAuth, Numpy & Pandas, Prisma, Django, PyQt & PyQtGraph, DiscordPy, Asyncio, Remark & Rehype
- **Tools**: Git Version Control, AWS S3, CockroachDB, Adobe Illustrator & Photoshop, GSuit & Microsoft Office
- **Miscellaneous**: Object-oriented, Web development, Backend, REST, 95+ WPM Typing, CPR Certified (2022)
- **Qualities**: Fast learner, Creative thinker, Good debugger, Efficient Communicator, Reliable and timely