Maxwell Lubarsky

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Education

University of San Francisco | San Francisco, CA — Graduated: May 2025

B.S. Computer Science, Magna Cum Laude

Relevant Coursework: Automata Theory, C and Systems, Computer Architecture, Computer Networks, Data Structures & Algorithms, Machine Learning, Full-Stack Software Development

Professional Experience

Project Drawdown — Jan 2025 – May 2025

Software Engineer Intern

- Took part in creating a web application (carbonincontext.com) that puts greenhouse gas emissions into intuitive comparisons that reflect real-life contexts. Utilized Flask framework in Python for backend, JavaScript, Html, and CSS for frontend, PostgreSQL for database, Railway paired with Cloudflare for hosting, and GitHub for version control.
- Developed the backend and frontend for the comparison cards, a key feature that allows users to contextualize emissions across different equivalency metrics such as Cars Driven, Flights from LA to NY, and many more.
- Collaborated with the team and sponsor to redesign the user interface, utilizing a dot exercise with the goal of aligning on a shared vision from all of our wireframe designs.

University of San Francisco, ITS — Jun 2022 – May 2025

Application Technician

- Collaborated with application administrators and programmers to provide technical support and resolve complex client issues.
- Developed and maintained technical documentation, including knowledge base articles and an outage tracker.
- Managed multiple ticket queues using ServiceNow, ensuring timely escalation and resolution of technical incidents.

Help Desk Technician

- Delivered technical support to 5,000+ faculty, staff, and students, through phone, walk-ins, and remote troubleshooting.
- Created and managed support tickets using ServiceNow, ensuring efficient resolution and follow-up.
- Troubleshot a wide range of technical issues including Wi-Fi, VPN, printing, Canvas, Cisco Jabber, Ellucian Banner, Duo Mobile, Gmail, and the University's web-based app.

Projects

Air Quality Index (AQI) Predictor | Python

- Built a Long Short-Term memory (LSTM) recurrent neural network model to predict San Francisco's AQI with 87% accuracy. Utilized Jupyter Notebook for implementation and GitHub for version control.

Search Engine | Java

- Developed a full-stack search engine featuring an in-memory inverted index and multithreaded web crawler with 2,000+ lines of code (SLOC). Utilized Apache OpenNLP, TD-IDF, Apache Log4j2, sockets, HTTP, Jetty servlets, HTML, Bulma CSS framework. Deployed JUnit for testing, Apache Maven for build management, and GitHub for version control.

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, HTML/CSS C, RISC-V Assembly, SQL
- **Libraries & Frameworks:** OpenAI API, PyTorch, TensorFlow, scikit-learn, pandas, Flask
- **Software & Tools:** CLion, Eclipse, IntelliJ, Visual Studio Code, Oracle SQL Developer, Git Bash, GitHub, Jupyterlab, Microsoft Office 365, Google Suite, Sublime Text, Wireshark, Ubuntu, Slack, ServiceNow, Railway
- **OS/Hardware:** Linux, Windows, Mac
- **Languages:** Fluent in English and Russian