Maxwell Lubarsky

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Education

University of San Francisco | San Francisco, CA

M.S. Computer Science Expected: May 2027

B.S. Computer Science, Magna Cum Laude Graduated: May 2025

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 MacOS and Windows, mobile devices, Wi-Fi, VPN, printing, Cisco Jabber, and various University applications used by students, professors, and faculty.

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 libraries such as PyTorch and scikit-learn for the model and Pandas for data preprocessing.

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, 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, Git Bash, GitHub, Jupyterlab, Microsoft Office 365, Google Suite, Sublime Text, Oracle VM VirtualBox, Wireshark, Ubuntu, Slack, ServiceNow, Railway
- **OS/Hardware:** Linux, Windows, Mac
- **Languages:** Fluent in English and Russian