Laura Allison Lovelace

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SUMMARY

Master's student in Software Engineering with graduate certificates in Machine Learning and Cybersecurity, and a B.S. in Computer Science. Experienced in full-stack development, AI development, software architecture design, and research and course assistantships. Learn more at **https://lauraobermaier.info**.

EXPERIENCE

A.I. Blockchain, New York, US (Remote)   May 2025 - October 2025
Software Engineer, Architect, and Planning Intern
- Designed scalable architectures for 3+ **ML/IoT platforms**, speeding artifact delivery by up to 75%.
- Built **data pipelines** and integrations, improving reliability and security in production workflows.
- Led weekly design reviews, aligning deliverables across **4 client projects** with long-term strategy.

NutriverseAI, Washington, US (Remote)   May 2025 - August 2025
Full-Stack Developer Intern
- Delivered **end-to-end features** (AI chatbot, forums, onboarding, settings) as sole developer, eliminating errors.
- Improved stability by reducing **npm warnings 21 to 0** and running full regression tests in under 3 hrs.
- **Fixed bugs** and proposed improvements, delivering 2+ reports weekly to cut deployment time by 30%+.

Stevens Institute of Technology, Hoboken, NJ   January 2025 - May 2025
Course Assistant under Dr. Reza Peyrovian
- **Graded and provided feedback** on algorithm assignments for 50+ students, ensuring fairness and accuracy.
- Supported instruction in **advanced algorithms** (graphs, DP, NP-completeness), also in office hours and email.
- Balanced 5–20 hrs/week with graduate study, maintaining <24h responsiveness and strong student support.

Florida State University, Tallahassee, FL   August 2022 - June 2023
Research Assistant under Dr. Jonathan Adams
- Conducted prompt optimization using **Stable Diffusion** and developed a binaural beats mobile application.
- Co-authored a paper on 723+ **AI-in-Education** studies, **published at AACE** EdMedia+ Innovate Learning 2023.
- Presented at the Spring 2023 Undergraduate **Research Symposium** to over 100 scholars, faculty, and parents.

EDUCATION

Stevens Institute of Technology, Hoboken, NJ   January 2024 - December 2025
Master of Science, Software Engineering (3.91 GPA)
Graduate Certificate, Machine Learning & Cybersecurity
- Scholarships: Stevens Institute of Technology Graduate Scholarship

Florida State University, Tallahassee, FL   August 2021 - December 2023
Bachelor of Science, Computer Science (3.97 GPA)
- Achievements: Summa Cum Laude, University Honors Program, 7x Dean's List, and 4x President's List
- Scholarships: FAS Bright Futures, Florida State University Freshman Scholarship

SKILLS (BY SIGNIFICANCE)

- **Programming Languages:** Python, C, C++, C#, Java, TypeScript/JavaScript, SQL/NoSQL, PostgreSQL, MySQL, FastAPI, SQLite, HTML/CSS, SCSS, Bash/Shell, Assembly, LaTeX/Markdown, JSON/XML
- **Technologies & Tools:** Git/GitHub/GitLab, Docker, React, Node.js, Next.js, .NET MAUI, Flask, Hugging Face, OpenAI, Jupyter, Anaconda, Linux, Windows, Visual Studio, Vercel
- **Cloud & DevOps:** AWS, Azure, Firebase, Nginx, Gunicorn, Auth0, Jira, GitHub Copilot, Linode, Visual Paradigm
- **Principles:** Code Review, Unit Testing, API Dev., CI/CD, Perf. Opt., Problem Solving, X-Platform Dev., Docs, Agile, Sys. Prog., Dist. Sys., Scalability, Reliability, Concurrency, Maintainability, Sec. Practices, TDD, Design Patterns

MOST RELEVANT PROJECTS

- **Humidor Temp App (IP):** Built an IoT-enabled humidor monitoring app, enabling real-time tracking
- **AGI Epigenetic Reprogramming (IP):** Designed an AI-assisted epigenetic reprogramming platform
- **NutriverseAI:** Led development of Chatbot, Forums, SignUp, and User Preferences features

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- **Wakatime Readme Stats:** Created customizable SVG cards for WakaTime stats in GitHub READMEs
- **NutritionAnalyzer:** Implemented a modular NLP pipeline; showcasing an approach to reduce hallucination
- **FAT32 File System:** Built a FAT32 system to aid file management and recursive traversal on mounted volumes
- **Hacker News:** Designed a secure, distributed, auto-updating news platform to streamline tech news access
- **Elevator Kernel Module:** Implemented a custom kernel module simulating elevator scheduling using FIFO
- **Shell:** Simulated a shell supporting internal commands, external program execution, and process management
- **Practice Panther:** Created a law firm manager app to improve client, project, bill, time, and employee tracking
- **Note Taking Mobile App:** Developed an Android app to manage and customize personal notes
- **Open Source Projects:** Leetcode Stats Card, Simple Icons, Awesome Github Profile README