Laura Allison Lovelace

laura.builds.tech@gmail.com | Hoboken, NJ 07030 | (954) 348-8139
Portfolio: lauralovelace.info | LinkedIn: linkedin.com/in/laura-a-lovelace | GitHub: github.com/LauraAllObe

SUMMARY

Software Engineer with experience delivering scalable, production-ready systems across fast-paced startup, research, and academic environments. Learn more at **https://lauralovelace.info**.

EXPERIENCE

AI Blockchain, New York, US (Remote)   May 2025 - December 2025

Software Engineer 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

- **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

AI Research Assistant

- 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 (3.97 GPA)

Graduate Certificate, Machine Learning & Cybersecurity

- Honors: Stevens Institute of Technology Graduate Scholarship

Florida State University, Tallahassee, FL   August 2021 - December 2023

Bachelor of Science, Computer Science (3.97 GPA)

- Honors: Summa Cum Laude; Honors Program; Dean's List (7×); President's List (4×); Bright Futures; Freshman Scholarship

SKILLS (BY SIGNIFICANCE)

- **Languages:** Python, TypeScript/JavaScript, Go, SQL (PostgreSQL, MySQL, SQLite), NoSQL, C++, Java, C, C#, HTML, CSS/SCSS
- **AI/ML:** Applied ML, Hugging Face, OpenAI / LLM APIs, Jupyter/JupyterHub, LLM Integration, GitHub Copilot, OpenAI Codex
- **Frameworks:** React, Next.js, Node.js, FastAPI, RESTful APIs, Flask, ExpressJS, .NET MAUI
- **Cloud/DevOps:** AWS, Azure, Docker, GitHub Actions, CI/CD, IaC, Cloud Infrastructure, Secure Deployments, Nginx
- **Data:** MongoDB, NoSQL, Firebase/Supabase, Relational Databases, Landsat 8, CESM2, Data Modeling, Data Pipelines
- **Tools:** Git (GitHub/GitLab), Version Control, Jira, VS Code, Bash/Shell Scripting, JSON/XML, Linux, Windows
- **Principles:** System Design, Scalability, Testing (Unit/Integration/E2E), Automation, Clean Code, Ownership Mentality
- **Soft:** Problem Solving, Eagerness to Learn, Growth Mindset, Leadership, Communication, Cross-functional Collaboration

FEATURED PROJECTS

Urban Futures Hackathon - American Museum of Natural History (LEAP)   January 2026

Climate Resilience · Data Analysis · Environmental Modeling

- Integrated demographic, zoning, and climate data for 49 redevelopment sites, converting addresses to lat/long for analysis
- Modeled 2025–2035 temperature projections by combining CESM2 deltas with high-resolution Landsat data
- Quantified cooling impact of 6 green interventions using 20+ sources and visualized results via StoryMaps

GitHub + Wakatime Stats Card: Built an open-source stats tool with 47+ customization options, 30 themes, and dynamic charts

NLP NutritionAnalyzer: Designed a domain-specific NLP pipeline using Mistral-7B, achieving 0.88 BERTScore-F1

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FAT32 File System: Developed a FAT32 file system with full directory navigation, file I/O, and low-level disk operations
Hacker News: Built a Hacker News-style web app with user auth, role-based access, and live content updates
Other Projects

Elevator Kernel Module	Note Taking Mobile App	Open Source Projects: Leetcode Stats
Shell Implementation	ProFessUp Web App	Card, Simple Icons, Awesome Github
Practice Panther Web App		Profile README