

Amaro da Luz

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EDUCATION

Stevens Institute of Technology

Bachelor of Science, Computer Science

GPA: 3.5

Hoboken, NJ

Expected May 2029

Relevant Coursework: Discrete Structures, Data Structures, Differential Calculus, and Research and Entrepreneurship in Computing.

SKILLS

Programming: Python, C, JavaScript, Java, SQL, HTML/CSS, Scheme, R

Networking & Systems: TCP/IP, BGP, routing, ICMP, Linux/WSL, network monitoring, high availability

Tools & Technologies: Docker, Containerlab, FRRouting, FastAPI, SQLite, Git/GitHub, Bash, Tableau, Figma, IntelliJ IDEA, Overleaf, LaTeX

Software Engineering: UI/UX design, AI-assisted development tools, code refactoring, clone detection, technical documentation, user testing

Languages: Fluent in English, Portuguese, and Creole

WORK EXPERIENCE

Stevens Institute of Technology

Design Team Member

Oct 2025 – Present

Highly competitive student organization that builds pro bono technical solutions for nonprofit partners.

- Collaborating with an advanced team of upper-class students on UX/UI and visual design initiatives.
- Contributing to a website redesign for **GenXL**, a youth-focused nonprofit.
- Leading design improvements for Blueprint's internal website.

Namira Paintball (8-employee startup) Praia, CV

Owner & Digital Marketing Manager

Jun 2023 – Sep 2025

- Oversaw daily operations of the paintball facility, including staffing, scheduling, customer service, and event coordination.
- Implemented data-driven online marketing campaigns that doubled bookings in one month, expanding the customer base to ~120 monthly clients and significantly increasing revenue.
- Built and managed the company's digital presence, resulting in stronger brand visibility and community engagement. Reach and accounts engaged increased by 3,183% and 523%, respectively, in just a month.
- Presented insights to stakeholders and drove data-driven strategies that contributed to increased bookings and revenue.

PROJECTS

NetOps Lab - Network Monitoring & Automation Platform

Sep 2026

Developer

[Github](#)

- Built a Python network monitoring and automation platform using Linux, Docker, Containerlab, and FRRouting to monitor interfaces, BGP sessions, critical routes, latency, packet loss, and service health across a redundant 3-router network.
- Implemented threshold-based incident detection, persistent monitoring state, root-cause correlation, and UP/DEGRADED/DOWN route classification with automatic BGP failover through a backup router.
- Developed automated convergence testing that observed 0.547-second failover and 1.538-second failback with 0% packet loss across 100 ICMP packets during testing.
- Exposed telemetry and incident data through a FastAPI REST API and SQLite backend, then built a live JavaScript dashboard with dynamic network-topology visualization and automated Bash startup/failover tooling.

CLONE - AI-Assisted IntelliJ Plugin for Clone Refactoring

May 2025

Research Developer

[Website](#) | [Github](#)

- Improved and documented CLONE, an IntelliJ plugin feature that detects copy-pasted Java code and helps developers review Extract Method refactoring suggestions before applying changes.
- Built the project website, 10-week progress archive, final documentation, demo scripts, UI screenshots, README updates, reports, and presentation materials.
- Helped design the review workflow around clone details, diff previews, validation evidence, and developer-controlled actions.
- Summarized feedback from 8 user testers and created results visuals to evaluate usability, feature usefulness, trust, and limitations.

YourWeb (Personal startup)

Apr 2026

Founder and Developer

[Website](#)

- Founded and developed Yourweb, a non-profit personal startup offering free custom personal websites, handling projects from user request to final deployment.
- Built a responsive, modern website using HTML, CSS, and JavaScript with an integrated contact form and portfolio showcase.
- Assisted users in deploying websites for free via GitHub Pages or custom domains, streamlining the end-to-end process.

Available to work: January - May 2027