Amanuel Garomsa

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Full-Stack Web Developer & AI Engineer proficient in JavaScript, TypeScript, React, Next.js, and modern AI frameworks. Experienced in scalable systems, AGI research, and backend architecture.

PROFESSIONAL EXPERIENCE

Canvelete   **Remote (Self-Employed)**
Founder & Full-Stack Developer   *Oct 2025 – Present*

- Founder of Canvelete — a SaaS platform for dynamic asset generation (thumbnails, templates, certificates, OG images).
- Built using Next.js, PostgreSQL (Prisma), Skia, Express, and OIDC authentication.

iCog Labs 🔗   **Addis Ababa, Ethiopia**
Machine Learning Engineer   *Sep 2024 – Nov 2025*

- Implemented MOSES compiler reductions, optimizing AGI symbolic reasoning tools.
- Integrated non-deterministic features into MeTTa for a 35% execution boost.
- Created Hyperon tooling improving AGI research workflows.

Star Ride (Golden Ride)   **Addis Ababa, Ethiopia**
Backend Developer   *Oct 2024 – Jul 2024*

- Developed backend platform for Ethiopia's ride-hailing ecosystem.
- Built geolocation, real-time tracking, ride matching, pricing, and payment modules.

iCog Labs 🔗   **Addis Ababa, Ethiopia**
Machine Learning Intern   *Apr 2024 – Sep 2024*

- Contributed to Hyperon, MOSES, and OpenPSI AGI systems.
- Integrated Rust + MeTTa modules enhancing reasoning performance.

A2SV (Africa to Silicon Valley) 🔗   **Addis Ababa, Ethiopia**
Trainee   *Nov 2023 – Mar 2024*

- Intensive training in algorithms, DSA, and collaborative software engineering.
- Solved 400+ competitive programming problems.

Ethiopian Space Science Society   **Addis Ababa, Ethiopia**
Web Developer Intern   *May 2023 – Feb 2024*

- Developed internal platforms with React and Node.js.
- Delivered production web features for space education programs.

PROJECTS

- **Canvelete** (Public platform)
  - Dynamic image/template generation: thumbnails, posters, OG images, certificates.
  - Tech stack: Next.js, TypeScript, PostgreSQL, Skia, Express, OIDC.
- **Star Ride Backend** (Private)
  - Real-time geospatial ride-hailing backend with PostGIS, Redis, WebSockets.
- **Autonomous Drone** (GitHub)
  - LiDAR-based drone simulation with RL + Imitation Learning.
- **GuzoSync** (GitHub)
  - AI-powered bus routing optimization system.

EDUCATION

Addis Ababa University   **Addis Ababa, Ethiopia**
B.Sc. Computer Science   *2022 – Jul 2025*

- Coursework: Algorithms, AI, ML, Web Development, Databases, OS, Networks.
- Strong academic focus on AI, software engineering, and distributed systems.

SKILLS

- **Languages:** TypeScript, JavaScript, Python, Rust, MeTTa
- **Frameworks:** React, Next.js, Node.js, Express, TensorFlow, Keras
- **Databases & Tools:** PostgreSQL, PostGIS, Prisma, Redis, Docker, Skia, Three.js
- **AI/ML:** RL, Active Inference, Predictive Coding, Symbolic AGI (Hyperon/MOSES)
- **Languages:** English (Fluent), Amharic (Native)

ACHIEVEMENTS

- Top 0.5% in Ethiopian University Entrance Exam (513/600).
- 300+ DSA problems solved.