

Gianmarco Arena

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EDUCATION

Toronto Metropolitan University

BEng. Computer Engineering

Sep 2020 - May 2025

- Relevant Coursework: Data structures and Algorithms, Intelligent Systems (Machine Learning), Distributed Cloud Computing, Fund. of Data Engineering

EXPERIENCE

Frontend Developer, Aesthera Tech.

Mar 2025 - Present

- Built and launched a customizable marketing website and a fully embeddable AI-powered widget using React, Tailwind CSS, and Vite to help clinics increase consultation bookings.
- Engineered iframe-based widget integration to allow seamless embedding into third-party clinic websites with full branding flexibility.
- Led development of the full website and widget UI, collaborating with the founder, designers, and clients to ensure custom branding and optimal UX across deployments.
- Enabled real-time before/after facial transformations using AI-powered botox simulation, increasing user engagement and trust during the pre-consultation phase.

Software Developer Intern, Falcon Bot

Jul 2024 - Sep 2024

- Engineered a Telegram-based crypto trading bot handling 100,000+ users and \$400,000+ in trading volume.
- Containerized FastAPI services with Docker and deployed to GCP Cloud Run using YAML-based Cloud Build for seamless CI/CD and scalable execution.
- Implemented a robust wallet management system with real-time portfolio tracking, allowing seamless creation, import, transactions, and instant insights into holdings across multiple networks.
- Reduced query latency by 40% using Redis caching, improving UI responsiveness and API efficiency.

Software Developer Intern, Dopple Labs

Mar 2024 - Jun 2024

- Developed a ReactJS + FastAPI admin panel for moderators to manage reports, improving response time for flagged content.
- Built an internal prompt-engineering tool, enabling non-technical team members to create and test AI models efficiently.
- Implemented a web scraping pipeline using Python, chunking and embedding data into Zilliz for Retrieval-Augmented Generation (RAG).
- Designed and integrated Stripe payment processing, automating subscription management for 300,000+ active users.

PROJECTS

Decentralized Blockchain Voting System

- Built interactive UIs in React, TypeScript, and Tailwind CSS for on-chain voting, enabling users to create, view, and vote in real-time with responsive design and dynamic state handling
- Developed modular Node.js/Express backend APIs for poll management, JWT-based auth, and vote tallying, using MongoDB.
- Engineered smart contracts in Solidity with Truffle, Ganache, and Ethers.js, syncing blockchain events to the app and ensuring reliable Web3 interactions and vote integrity

Chefli, AI-Powered Recipe and Meal Assistant

- Developed a cross-platform mobile app in React Native to generate AI-curated ingredient lists and recipes based on user preferences, improving onboarding and retention.
- Built custom scripts to parse and transform unstructured recipe data into structured formats, streamlining ingestion into the app's backend database.
- Collaborated with designers, and engineers to enhance UI/UX, improving app engagement and user retention.
- Published to App Store and Play Store with full deployment pipeline via Expo.

SKILLS

Software Development

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS

Libraries & Frameworks: React, React Native, Tailwind CSS, FastAPI

Infrastructure & Tools

Databases: PostgreSQL, Firebase, MongoDB

Version Control: Git, GitHub

Tools: Docker, Expo, REST APIs, YAML, Vite