Solayjon Ollanazarov

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EDUCATION

CUNY Brooklyn College   Brooklyn, NY
Bachelor of Science in Computer Science   *Expected December 2026*

EXPERIENCE / PROJECTS

Senthema — Solo Founder   April 2025 – Present
Tech Stack: Next.js, TypeScript, Tailwind, Node.js, Express.js, Prisma, PostgreSQL, Socket.io   *Remote*

- Built and scaled a full-stack AI study assistant used by 500+ users, generating 100,000+ study artifacts from PDFs, images (OCR), YouTube videos, and web content using OpenAI GPT-5.1, Google Gemini, and LangChain
- Architected real-time collaborative learning spaces with Socket.io, supporting 1,000+ concurrent users, live file updates, RBAC permissions, in-space chat, and presence indicators
- Designed a production-grade backend with PostgreSQL, Prisma, and Redis, modeling 25+ relational tables and 50+ REST endpoints, reducing API latency by 40–60%
- Engineered secure authentication with passwordless login, Google & Discord OAuth, JWT tokens with httpOnly refresh cookies, and rate limiting
- Implemented Stripe subscriptions and usage-based feature gating, achieving 15–25% free-to-paid conversion

MediQ — Cornell AI Health Hackathon 2026   March 2026
Tech Stack: Next.js, TypeScript, Tailwind CSS, NestJS, Prisma, PostgreSQL, Socket.IO, Python   *Brooklyn, NY*

- Built an AI-powered ER triage system that monitors patient deterioration through periodic voice check-ins, analyzing both speech content and voice biomarkers (tremor, breathing patterns, emotional stress, pain, fatigue, urgency)
- Fine-tuned Microsoft's WavLM model with LoRA for multi-task clinical voice analysis, detecting 6 biomarker categories from audio
- Architected real-time WebSocket dashboard with Socket.IO, enabling staff to monitor risk scores across the waiting room with live updates and browser notifications for critical alerts
- Integrated OpenAI Whisper for transcription and GPT-4o for symptom analysis, with Twilio SMS for automated patient check-in reminders

Unadat — Software Engineer Intern   July 2025 – Aug 2025
Tech Stack: PHP, JavaScript (jQuery), HTML/CSS, MySQL, Bootstrap   *Remote*

- Shipped Circles with Feed integration on a 9-person team; owned end-to-end friends flows and UI/UX
- Delivered PHP/MySQL backend improvements with validation, safe HTML escaping, and cross-browser fixes

ACHIEVEMENTS

EcoWare — Sustainable Service-ware Platform | *Winner of the Fitch Codeathon*   October 2024

- Built a sustainability-focused platform during a 70-hour hackathon to reduce single-use service-ware waste
- Developed a cross-platform React Native + Expo app enabling QR-based reusable item tracking
- Implemented authentication, inventory management, and reward systems
- Built a Next.js vendor dashboard for real-time usage analytics

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL (PostgreSQL), HTML/CSS
Backend: Node.js, Express.js, NestJS, Prisma, REST APIs, WebSockets (Socket.io), JWT/OAuth
Frontend: React, Next.js, Tailwind CSS, Framer Motion
Datastores: PostgreSQL, Redis
AI/LLM Tools: OpenAI API, Google Gemini API, LangChain, Prompt Engineering,
Tools/DevOps: Git, Docker, Google Cloud Platform, n8n, Coolify, Vercel, Linux